CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Dec. 9	New York, N. Y.	Dec. 8
Dec. 13	New York, N. Y.	Dec. 8
Dec. 13	Fullerton, Cal.	Dec. 8
Dec. 13	Lincoln, Neb.	Dec. 1
Dec. 13	Monroe, Mich. Adv. Dec. 8.	Dec. 8
Dec. 13	Brooklyn, N. Y.	Dec. 8
Dec. 13	Long Island City, N. Y.	Dec. 8
Dec. 14	Reading, Pa.	Dec. 1
Dec. 15	Yakima, Wash.	Dec. 1
Dec. 16	Cleveland, O.	Nov. 24
Dec. 16	Broken Bow, Okla.	Dec. 8
Dec. 19	Buffalo, N. Y.	Dec. 8
Dec. 27	Walla Walla, Wash. Adv. Dec. 8.	Dec. 8

SEWERS

Dec. 12	New York, N. Y.	Dec. 8
Dec. 13	Harrison, N. J.	Nov. 17
Dec. 13	Richmond, Va. Adv. Dec. 1 and 8.	Dec. 1
Dec. 13	Phila., Pa.	Dec. 8
Dec. 14	Brooklyn, N. Y.	Dec. 8
Dec. 19	Spring Lake, N. J. Adv. Dec. 1 and 8.	Dec. 8
Dec. 19	Akron, O.	Dec. 8
Dec. 20	Passaic, N. J.	Nov. 24
Dec. 20	Warren, O. Adv. Dec. 1 and 8.	Dec. 8
Jan. 13	Milwaukee, Wis. Adv. Dec. 8.	Dec. 8

WASTE DISPOSAL

Dec. 20	Alameda, Cal.	Dec. 8

BRIDGES

Dec. 10	Pikeville, Ky. Adv. Nov. 24 to Dec. 8.	Dec. 1
Dec. 12	Riverside, Cal.	Dec. 12
Dec. 13	Phila., Pa.	Nov. 17
Dec. 14	Topeka, Kan.	Dec. 8
Dec. 16	Fresno, Cal.	Dec. 8
Dec. 16	Florida	Dec. 8
Dec. 16	McPherson, Kan.	Dec. 8
Dec. 19	Phila., Pa.	Nov. 17
Dec. 20	Illinois	Dec. 8
Dec. 21	Baltimore, Md. Adv. Dec. 8	Dec. 8
Dec. 22	Madison, Wis.	Dec. 1

DAMS

Dec. 17	Phoenix, Ariz.	Nov. 17

RAILWAYS

Dec. 20	Ontario	Dec. 1

EXCAVATION AND DREDGING

Dec. 14	Jackson, Minn.	Dec. 8
Dec. 20	Carrollton, Mo. Adv. Dec. 1 and 8.	Dec. 8
Dec. 20	Holly, N. Y.	Dec. 8
Jan. 7	Riverton, Wyo.	Nov. 10
Jan. 7	Duluth, Minn.	Oct. 13

STREETS AND ROADS

Dec. 12	Washington	Dec. 1
Dec. 12	California	Dec. 1
Dec. 12	Long Island City, N. Y.	Dec. 8
Dec. 13	Morton, Wash.	Dec. 1
Dec. 13	Florence, S. C.	Dec. 1
Dec. 13	Atchison, Kan.	Nov. 17
Dec. 13	Dunedin, Fla.	Nov. 24
Dec. 13	Mill Valley, Cal.	Dec. 8
Dec. 13	Van Buren, Mo.	Dec. 8
Dec. 14	Brooklyn, N. Y.	Dec. 8
Dec. 14	Wharton, Tex.	Dec. 8
Dec. 14	Rhode Island Adv. Dec. 1 and 8.	Dec. 1
Dec. 15	Huntington, W. Va.	Dec. 1
Dec. 15	Cuero, Tex.	Dec. 8
Dec. 15	Hondo, Tex.	Dec. 8
Dec. 15	Davenport, Ia.	Dec. 8
Dec. 16	West Virginia. Adv. Nov. 24 to Dec. 8.	Nov. 24
Dec. 16	Blue Earth, Minn.	Dec. 8
Dec. 17	Kerrville, Tex.	Dec. 8
Dec. 19	Wadena, Minn.	Dec. 8
Dec. 19	Dallas, Tex.	Dec. 8
Dec. 19	Greenfield, Ind.	Dec. 1
Dec. 19	El Centro, Cal.	Dec. 1
Dec. 19	Elmhurst, Ill.	Nov. 17
Dec. 19	Georgetown, Tex.	Dec. 8
Dec. 19	Breckenridge, Minn	Dec. 8
Dec. 19	Benton, Ill.	Dec. 8
Dec. 19	Olton, Tex.	Dec. 8
Dec. 19	California	Dec. 8
Dec. 19	Mt. Rainer, Md. Adv. Dec. 8.	Dec. 8
Dec. 20	Illinois	Dec. 8
Dec. 20	Kansas City, Kan.	Nov. 17
Dec. 20	New Mexico	Dec. 8
Dec. 21	Little Falls, Minn.	Nov. 24
Dec. 22	Pecos, Tex.	Dec. 8
Dec. 23	Iola, Kan.	Nov. 24

INDUSTRIAL WORKS

Dec. 12	Providence, R. I.	Dec. 8
Dec. 13	St. Louis, Mo.	Dec. 8
Dec. 13	Wilmington City, Ind.	Dec. 8
Dec. 15	Lansing, Mich. Adv. Dec. 1 and 8.	Dec. 1
Dec. 15	Detroit, Mich.	Dec. 8
Dec. 20	Brockport, N. Y.	Dec. 8
Dec. 20	Phila., Pa.	Dec. 8
Dec. 21	Marcy, N. Y.	Dec. 8

BUILDINGS

Dec. 12	North Robinson, O.	Dec. 1
Dec. 12	Tallahassee, Fla.	Nov. 17
Dec. 12	Kalamazoo, Mich.	Nov. 24
Dec. 12	Aspinwall (Pittsburgh P. O.), Pa.	Dec. 1
Dec. 12	St. Paul, Minn.	Dec. 8
Dec. 14	Huron, S. D.	Nov. 17
Dec. 15	Plymouth, Pa.	Dec. 1
Dec. 15	Dayton, O.	Nov. 17
Dec. 15	Lawrence, Mass.	Nov. 17
Dec. 15	Delavan, Ill.	Dec. 1
Dec. 15	Independence, Kan.	Nov. 24
Dec. 15	Castalia, O.	Nov. 24
Dec. 15	Okeene, Okla.	Dec. 8
Dec. 15	Clinton, Ind.	Dec. 8
Dec. 15	Superior, Wis.	Dec. 8
Dec. 15	Dallas, Tex.	Dec. 8
Dec. 17	Elizabeth City, N. C.	Dec. 8
Dec. 19	Detroit, Mich.	Dec. 8
Dec. 20	Missoula, Mont.	Oct. 20
Dec. 20	Bozeman, Mont.	Oct. 20
Dec. 20	Butte, Mont.	Oct. 20
Dec. 20	Phila., Pa.	Dec. 8
Dec. 20	Princeton, N. J.	Dec. 8
Dec. 20	St. Louis, Mo.	Dec. 8
Dec. 21	Willard, N. Y. Adv. Dec. 8.	Dec. 8
Dec. 22	Tulsa, Okla.	Dec. 8
Dec. 23	Eldorado, Kan.	Nov. 24
Dec. 23	Toledo, Ohio	Dec. 8
Dec. 23	New Orleans, La.	Dec. 8
Dec. 27	Petaluma, Cal.	Dec. 8
Dec. 28	Flint, Mich.	Dec. 8
Dec. 29	Columbus, O.	Dec. 8
Jan. 1	Detroit, Mich.	Nov. 17
Jan. 15	Laramie, Wyo.	Sept. 29
Jan. 17	Madison, Wis.	Dec. 8
Feb. 1	Williamsport, Pa.	Sept. 8
Feb. 1	Duluth, Minn.	Oct. 27

FEDERAL GOVERNMENT WORK

Dec. 13	Alterations — Columbia, S. C.	Nov. 24
Dec. 14	Quarters—Savannah, Ga.	Dec. 1
Dec. 14	Water Supply System—Yorktown, Va.	Dec. 8
Dec. 15	Hospital—Marion, Ind.	Dec. 1
Dec. 19	Hospital—Milwaukee, Wis.	Dec. 1
Dec. 19	Material—Augusta, Ga. Adv. Dec. 8.	Dec. 8
Dec. 20	Extension to Workroom, etc.—Oak Park, Ill. Adv. Dec. 8.	Dec. 8
Dec. 20	Terminal — Vicksburg, Miss.	Dec. 8
Dec. 20	Mailing Vestibule, etc.—Oak Park, Ill. Adv. Dec. 8.	Dec. 8
Dec. 21	Fire Protection System — Charleston, S. C.	Dec. 8
Dec. 28	Valve—Denver, Col.	Nov. 17
Dec. 29	Structures—Savage, Mont.	Nov. 17

MISCELLANEOUS

Dec. 12	Pier—New York, N. Y.	Dec. 8
Dec. 12	Dredge Repair—New York, N. Y.	Dec. 8
Dec. 13	Steam Asphalt Roller—New York, N. Y.	Dec. 8
Dec. 14	Fire Hydrant — Detroit, Mich.	Dec. 8
Dec. 15	Wood Paving Blocks — New York, N. Y.	Dec. 8
Dec. 20	Electric Wiring, etc—Brooklyn, N. Y. Adv. Nov. 24 to Dec. 8.	Nov. 24
Dec. 21	Sanitary Work—Binghamton, N. Y. Adv. Dec. 1 and 8.	Dec. 1
Dec. 22	Baseball Stadium — New York, N. Y. Adv. Dec. 8.	Dec. 8
Dec. 23	Oil Tanks and Boilers—New Orleans, La. Adv. Nov. 3 to Dec. 8.	Nov. 3
Dec. 28	Water Supply System—Metuchen, N. J.	Dec. 8
Jan. 4	Wharf Cranes—Rochester, N. Y. Adv. Dec. 8.	Dec. 8

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. C., Littleton—Plans waterworks. $50,000. H. C. Smith, clk.

N. C., Raleigh—Plans 250,000,000 gal. impounding reservoir, 750,000 gal. steel tank and tower, enlarging reservoir, pumping and filter plants, and extending 14 and 24 in. stave pipe lines. $500,000. J. B. Bray, 406 West Hargett St., engr.

Ia., Dubuque—To vote on $250,000 bonds to improve water supply system, incl. additional wells, pumping equipment, etc., D. H. Maury, 1439 West Jackson Blvd., Chicago, engr.

Mo., Caruthersville—Making plans for improvements to waterworks, incl. addition to pumping station, new mains and reservoir. $60,000. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Nov. 17.

Ont., Long Branch—Plans c.i. distribution system, 6 in. up., valves, hydrants, water tower, etc.; water to be brought from New Toronto pumping station. $180,000. Barber, Wynne-Roberts & Seymour, 40 Jarvis St., Toronto, engrs.

BIDS DESIRED

N. Y., Brooklyn—Dec. 13, by Commissioner Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Eldert Lane, Benson, Canal, Leonard, Lorraine, Saratoga and Stillwell Aves., Dikeman, East 2nd, East 14th, West 37th, 58th, 62nd, 64th, 65th, 75th and 78th Sts., here

N. Y., Buffalo—Dec. 19, by Mayor, City Hall, c.i. pipe, special castings, valves, special piping and hydrants. E. E. Larkin, City Hall, engr.

N. Y., Long Island City—Dec. 13, by Commissioner Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Winslow Pl., 1st Ward, Hanson Pl. and 20th St., 2nd Ward, Huntley Dr., 33rd and 65th Aves., 161st, 166th, 167th and 170th Sts., 3rd Ward, here.

N. Y., New York—Dec. 9, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., furnishing, installing and connecting boiler at 98th St. pumping station.

N. Y., New York—Dec. 13, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains and appurtenances in Wadsworth Terrace, Boro of Manhattan, Carlisle Pl., Pierce Ave., West 180th and East 213th Sts., Boro of Bronx.

N. C., Elizabeth City—See "Buildings."

Mich., Monroe—Dec. 13, by F. M. Kreasbach, city clk., c.i. pipe line and river crossing. Hoad & Decker, Ann Arbor, consult. engrs.; adv. this issue.

Okla., Broken Bow—Dec. 16, pumping station, reservoir and mains. $120,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted July 28.

Wash., Walla Walla—Dec. 27, for material incident to complete construction of 2nd part of 3rd Division of proposed additions and betterments to and extensions to water system. E. T. Churchman, city clk.; adv. this issue.

Waterworks (Continued)

Cal., Fullerton—Dec. 13, by city clerk, 320 x 240 ft. rein.-con. reservoir, 15 ft. deep. $60,000.

BIDS RECEIVED

N. Y., Syracuse—Bd. Contract & Supply, City Hall, opened bids Dec. 5, laying 3,200 lin.ft. 36 in. c.i. pipe in Sect. 1 of 3rd Skaneateles-Syracuse Conduit, from A. L. Anderson & Bros., Altoona Trust Bldg., Altoona, Pa., lead joints, $115,156, leadite joints, $109,980, Mondo Constr. Co., C. B. Bldg., lead joints, $158,050, metallium joints $151,650, Scott Bros., Arlington Blk, Rome, lead joints, $167,944, metallium joints, $161,544; furnishing and laying 36 in. pipe incl. all specials, from Gallup, Dickinson & Houlihan, Syracuse, $334,940, Booth & Flinn, 1942 Forbes St., Pittsburgh, Pa., $343,625, T. A. Gillespie Co., 50 Church St., New York, $392,225; furnishing 36 in. c.i. pipe, from Warren Fdry. & Machine Co., 11 Bway., New York, $227,050, U. S. Cast Iron & Fdry. Co., Morris Bldg., Philadelphia, Pa., $248,438; furnishing all gate and air valves from Eddy Valve Co., South Waterford St., Troy, $6,515, Ludlow Valve Co., Adams St., Troy, $6,615. Noted Nov. 24.

Mich., Detroit—Electrical equipment for pumping station on Randolph St., from Turner Eng. Co., 452 West Larned St., $50,461; Miller & York, 451 Larned St., $53,845; J. Livingstone & Co., 13 Campau Bldg., $54,790. Noted Nov. 3.

CONTRACTS AWARDED

Tex., Wichita Falls—Wichita Co. Water Impvt. Dist. 1, Morgan Bldg., reservoir and canal system, incl. earth storage dam, outlet works, spillway, etc., diversion dam with concrete overflow, levee with outlet gates, and irrigation distributing system, involving 500,000 ft. lumber, placing of flumes, gates and other items, 1,400,000 cu. yd. earth embankment, 300,000 cu.yd. earth levee, 60,000 cu.yd. rubble, plain and rein.-con., 45,000 cu.yd. rock rip rap, 20,000 cu. yd. gravel blanket, 3,700,000 cu.yd. earth excav. and borrow for canals and laterals, to Callahan Constr. Co., c/o E. S. Heyser, Wichita Falls, $3,354,211. Noted Nov. 3 under "Waterworks" and "Dams."

Sewers

PROPOSED WORK

N. J., Jersey City—Had plans prepared Fisk St. system, 13,400 lin.ft. 18-24 in. vitr., 4,255 lin.ft. 30-102 in. segment block, 50 lin.ft. 8 ft. 6 in. concrete and 97 lin.ft. 8 ft. 6 in. steel pipe, etc. $203,000. C. A. Van Keuren, City Hall, city engr.

Pa., Phila.—Takes bids about Dec. 21, concrete and brick branch sewers, $300,000. C. Frommer, City Hall, engr.

N. C., Littleton—Plans to install sewerage system and improve various streets. $75,000. H. C. Smith, clk.

Ill., Mt. Vernon—Plans 27,003 ft. intercepting sewers, settling tank, trickling filter, sludge bed and water supply. $180,000. A. C. Stanfield, city engr.

Ill., North Chicago—Rejected bids opened Nov. 22, 10-20 in. vitr. tile sewers. $30,000. C. M. Powell, City Hall, engr. Noted Nov. 17.

Wis., Westby—Making plans sewerage system, incl. sanitary and storm sewers. $50,000. W. G. Kirchoffer, Vroman Blk., Madison, engr. Noted Nov. 17.

Ia., North English—Making plans sewerage system. $30,000. H. R. Green, Cedar Rapids Savings Bank Bldg., Cedar Rapids, Ia., engr.

Minn., Northfield—Making plans sanitary and storm sewers Worthington Eng. Co., 317 McKnight Bldg., Minneapolis, engrs.

Ont., Oshawa—Making surveys 8,800 ft. 12-24 in. vitr. tile sanitary sewer in Westmount St. $120,000. N. G. McDonald, town engr.

BIDS DESIRED

N. Y., Brooklyn—Dec. 14, by E. Riegelmann, boro pres., repairs to sewer in Foster Ave. between Ocean Parkway and East 7th St.

N. Y., New York — Dec. 12, by H. H. Curran, pres. Manhattan Boro. Municipal Bldg., altering and improving sewer in West 20th St. between 6th and 7th Aves.; repairing 15 in. vitr. sewer in East 101st St. between Park and Madison Aves.

N. Y., New York—Dec. 12, by H. Bruckner, pres. Bronx Boro. Municipal Bldg., sewers and appurtenances in East Tremont Ave., west side, between Appleton and Coddington Aves., etc. $150,000.

N. J., Spring Lake—Dec. 19, by Mayor and Council, sewer extensions and ejector station fully equipped. J. M. Braly, boro engr.; adv. this issue.

Pa., Phila.—Dec. 13, 250 ft. sewer in Blain St., $3,200, 493 ft. Columbia Ave., $5,000, 560 ft. Comly St., $6,200, 860 ft. Devereaux St., $10,000, 741 ft. Edmund St., $8,000, 116 ft. Emily St., $1,500, 452 ft. 4th St., $5,500, 1,000 ft. 52nd St., $15,000, 767 ft. Hartwell Lane, $10,000, 1,680 ft. Nedro Ave., $25,200, 675 ft. Ruscomb St., $8,000, 3,405 ft. 16th St., $35,900, 1,315 ft. 67th Ave. N., $16,000, 750 ft. Tacony St., $10,000, 425 ft. Tioga St., $5,000, 472 ft. Torresdale Ave., $5,900, 1,926 ft. Upsal St., $25,000, 723 ft. Wakeling St., $10,000, 3,280 ft. Broad St. from Oaklyn St. to 71st Ave., $50,000, 368 ft. Broad St. from 71st Ave. N. to point 368 ft. north, $3,600, 2,510 ft. Ognotz Ave. from Nedro Ave. to Church Lane, $30,000, 3,950 ft. Ognotz Ave. from 72nd to 74th Aves., also in Walnut Lane and Alsop St., $45,000, 1,490 ft. York Rd. from Champlost Ave. to Sparks St., $17,900, 3,070 ft. York Rd. from Oak Lane to Cheltenham Aves., $35,000; all 2 ft. 3 in. x 1 ft. 6 in. vitr. brick. C. Frommer, City Hall, ch. engr.

N. C., Elizabeth City—See "Buildings."

O., Akron—Dec. 19, by Director Pub. Serv., storm sewer in Maple St., 6,000 ft. 30-63 in. vitr. brick or segmental block, 5,000 ft. 8-27 vitr. tile block, 550 cu.yd. concrete. J. E. Root, 300 Delaware Bldg., engr.

O., Warren—Dec. 20, by E. H. Braunberns, dir. Pub. Serv. combined sewer beginning at Mahoning River near mouth of Red Run and terminating near intersection of Dana Ave. and Hughes Rd. A. Potter, 50 Church St., New York, consult. engr.; adv. this issue.

Wis., Milwaukee—Jan. 13, by Sewerage Comn., at offices in City Hall, sewage disposal plant, etc. J. H. Fowles, secy.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Dec. 1, storm and sanitary sewers in (1) Ave. S, (2) Fenimore St., (3) 64th St., from Tomasetti & Co., Inc., 1133 60th St., (1) 82 87/100% of engineers estimate ($28,000), (2) 88 98/100% ($3,000), (3) 94 97/100% ($2,000); J. J. Guinan Contg. Co., 2314 Gravesend Ave., (1) 91%; G. L. Schrade, (1) 101 37/100%; Murphy Bros., 8856 26th Ave., (2) 99%, (3) 71 35/100%; J. Jennings, Belle Harbor, (3) 96 84/100%. Noted Nov. 24.

CONTRACTS AWARDED

N. J., Newark—Passaic Valley Sewerage Comrs., 128 Market St., to Harrison & Craig Co., 31 Clinton St., Northerly portion of Sect. 29, Brown St. Branch Intercepting Sewer, 4,432 lin.ft. earth excav. and refill, in trench for 24 in. concrete sewer, $14.20 per lin.ft., 598 lin.ft. earth excav. and refill in trench for 15 in. vitr. pipe sewer $3.50, 1,500 cu.yd. concrete masonry etc., $15, etc.; total $102,767. Noted Oct. 27.

O., Canton—Sect. 2 of Shriver Run Sewer from 11th St. N. E. to 16th St. N. E., brick, to River Constr. Co., Schofield Bldg., Cleveland, $65,873.

Ill., Benton—Sewers in Dist. 1, to J. L. Walker Co., Hamilton, O., $223,599. Noted Nov. 17.

Ill., Elmhurst—For 8-12 in. tile sewers, Moureau Sub-Div., to T. H. Iglehart, 209 South La Salle St., Chicago, $30,000. Noted Oct. 6.

Wis., Shullsburg—For 1 mi. sanitary and storm sewers in entire village, to Gray Robinson Constr. Co., Manitowoc, $25,000.

Okla., Pawhuska—For 18-36 in. storm sewers, to M. R. Ammerman, 437 South Market St., Wichita, Kan., and J. Stanton Constr. Co., Leavenworth, Kan., $25,000. Noted Sept. 29.

Waste Disposal

BIDS DESIRED

Cal., Alameda—Dec. 20, garbage incinerator, 48 ton daily capacity, $55,000. C. E. Hickok, city mgr.

CONTRACTS AWARDED

N. J., Atlantic City—Removal of garbage for 1 year, to McReever Bros., Tennessee Ave., $139,900.

Bridges

PROPOSED WORK

N. Y., New York—Dept. Plants & Structures, Municipal Bldg., had plans prepared for steel and concrete lift bridge, 20 ft. above high water at its centre and 11 ft. at abutments, over Bronx River on line with Westchester Ave. $250,000.

North Carolina—State Hy. Comn., Raleigh, plans rein.-con. arch or steel bridge over Yadkin River between Richmond and Anson Counties, State Project 610. $1[illegible]000. C. M. Upham, state highway engr.

Florida—State Rd. Dept., Tallahassee, having plans prepared 300 ft. bridge 16 or 20 ft. over Sebastian River between Brevard and St. Lucie Counties. Cost between $100,000 and $200,000. C. A. Browne, state highway engr.

Alabama—See "Streets and Roads."

Alabama—State Hy. Dept., Montgomery, having plans prepared 430 ft. bridge with one 120 ft. steel and ten 28 ft. concrete T beam girder spans on concrete substructure over Cahaba River, on Jefferson-St Clair Co. line, Jefferson Co. $40,000. W. S. Keller, state highway engr.

Ala., Talladega—Talladega Co. having plans prepared two 110 ft. steel spans. L. G. Smith, Montgomery, state highway bridge engr.

Tennessee—State Highway Dept., Nashville, takes bids about January, rein.-con. bridge over Rocky River, Van Buren Co. $50,000. D. Q. McComb, ch. engr.

Kan., Hutchinson—Making plans Maple St. Bridge, concrete. $26,000. R. B. Lee, Hutchinson, engr.

Tex., Beaumont—See "Streets and Roads."

Tex., Gause—Milam Co. (Cameron) and Robertson Co. (Franklin), had plans prepared for 250 ft. steel span bridge over Brazos River, here. $120,000. A. F. Mitchell, Cameron, co. engr.

Tex., Orange—See "Streets and Roads."

Wash., Raymond—State Hy. Dept., Olympia, had plans prepared steel bridge (with perpendicular draw affording 125 ft. passageway for ships) over Willapa River, near here. $175,000. J. Allen, Olympia, state highway engr.

BIDS DESIRED

Md., Baltimore—Dec. 21, by Bd. Awards of Baltimore City, at office City Register, City Hall, paper mill bridge and approaches over Gunpowder River. W. F. Broening, pres. Bd. Awards; adv. this issue.

Florida—Dec. 16, by State Rd. Dept., Tallahassee, four 40 ft. approach spans to Apalachiccola Bridge, 500 cu.yd. concrete, 40 ton steel and piling, etc., also operators house on bridge. C. A. Browne, state highway engr.

Kentucky—Dec. 21, State Hy. Comn., Frankfort, removing old bridge and abutments and constructing temporary bridge, 250 ft. steel span, rein.-con. abutments on creosoted piles, 30 ft. roadway, on Louisville-Paducah Rd. over Clover Creek, Breckenridge Co.; 80 ft. steel span superstructure, Sta. 406 plus 65, Mayo Trail East Fork Creek, 20 ft. concrete roadway, Boyd Co. P. Butler, state bridge engr.

Illinois—Dec. 20, Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, following bridges 1 concrete and substructure for 1 steel, Route 13, Sect. 9-B, Saline Co.; 1 Superstructure for steel, Route 13, Sect. 9-C, Saline Co.; 1 concrete and substructure for steel, Route 13, Sect. 10-B, Gallatin Co.; 1 superstructure for steel, Route 13, Sect. 10-C, Gallatin Co.; 3 concrete, Route 13, Sect. 11-B, Gallatin Co.; 2 concrete, State Aid 6, Sect. F, Rock Island Co.; 1 concrete and 1 steel, Route 13, Combination E, Saline Co.; 1 concrete and 1 steel, Route 13, Combination F, Gallatin Co.; 5 concrete and 2 steel superstructures, Route 13, Combination G, Saline-Gallatin Co.; 2 steel superstructures, Route 13, Combination H, Saline-Gallatin Co.; 5 concrete and 2 steel Route 13, Combination I, Saline-Gallatin Co. C. Older, ch. highway engr.

Kan., McPherson—Dec. 16, by Comrs. McPherson Co., one 33 ft. steel I beaf bridge, concrete floor and abutments and one 270 ft. steel bridge, to have three 50 ft. and one 120 ft. spans, concrete floor, piers and abutments. H. A. Rowland, McPherson, engr.

Kan., Topeka—Dec. 14, by Clerk Shawnee Co., Grove Bridge, 100 ft. steel truss or rainbow span; Duncan Bridge, two 40 ft. through girder or rainbow; Wanamaker Bridge 20 ft. concrete slab; Mill Dam Bridge, 120 ft. steel truss or rainbow span; Seward Bridge, 110 ft. steel truss; Nedeau Bridge 35 ft. T girder; Lawton Bridge 40 ft. T girder; County Line Bridge 40 ft. T girder. A. C. Lagerwall, Topeka, engr.

Cal., Fresno—Dec. 16, by Bd. Supervs. Fresno Co., 3 bridges and 25 culverts on Centerville-Dunlop Rd., 243 ft. 12-30 in. concrete pipe, 172 ft. 8-18 in. corrugated metal pipe, 324 cu.yd. rein.-con., 18,900 lb. reinforcing, 59,319 ft. b.m. bridge lumber. C. P. Jensen, Cory Bldg., engr.

Bridges (Continued)

Cal., Riverside—Dec. 12, by Bd. Supervs. Riverside Co., 1,104 lin.ft. trestle, 88,000 cu.yd. excav. A. C. Fulmor, co. surv.

BIDS RECEIVED

O., Shadesville—Comrs. Franklin Co. (Columbus) opened bids Nov. 29, 890 ft. concrete bridge to have 9 arches, 24 ft., over Scioto River, here, from Stein Constr. Co., 204 Grand Ave., Milwaukee, Wis., $166,667, McGucken Constr. Co., 425 East Water St., Milwaukee, Wis., $205,312; several contractors submitted bids for steel structures as follows, E. Elford, 307 East Gay St., Columbus, $144,453, E. M. Scully, Columbus (3 types) $135,000, $184,000 and $174,000, Capitol Constr. Co., 849 Reynolds Ave., Columbus (3 types) $138,270, $140,454 and $141,767. Noted Nov. 3.

Minn., New Ulm—State Hy. Comn., St. Paul, opened bids Dec. 2, Bridge 3660, one 171 ft. steel and two 75 ft. truss spans on concrete abutments and piers; Bridge 3661, three 75 ft. spans on concrete abutments and piers, over Minnesota River near here, for Brown and Nicollet Counties, City of New Ulm and State, from Great Northern Bridge Co., 225 Kasota Bldg., Minneapolis, $48,786; Illinois Steel Co., 836 Security Bldg., Minneapolis, $48,792. Noted Nov. 24.

CONTRACTS AWARDED

Pa., Pittsburgh—Reconstructing and improving bridge connecting Beechwood Blvd. and Schenley Park, to E. M. Wichert Co., Bowman Bldg., $196,264..

Illinois—Dept. Pub. Wks. and Buildings, Springfield, following bridges, Route 37, Jefferson Co., 1 concrete and substructure for 1 steel, Sect. 1-B, and 3 concrete, Sect. 1-D, to H. R. Cawood, Mt. Vernon, $30,362 and $15,873 respectively; 1 superstructure for steel, Sect. 1-C, to Rochester Bridge Co., Rochester, Ind., $6,832. Noted Nov. 24.

Mich., Detroit—For steel bascule bridge 156 ft. long, 54 ft. wide, over River Rouge, Fort St., to Bethlehem Steel Bridge Co., South Bethlehem, Pa., $272,500. Noted Dec. 1.

Dams

PROPOSED WORK

Mo., Lamar—See "Industrial Works."

CONTRACTS AWARDED

Tex., Wichita Falls—See "Waterworks."

Railways

PROPOSED WORK

New York—See "Miscellaneous under Rochester."

Excavation and Dredging

PROPOSED WORK

Ia., Lansing—J. Boeckh, H. Haas and others, plan levee and drainage work, to reclaim 12,500 acres bottom land between Chicago, Burlington & Quincy R.R. and Mississippi River, in Crawford Co. C. H. Young, Muscatine, engr.

Mont., Red Lodge—Carbon Co. had plans prepared Red Lodge-Rosebud Irrigation Project, to reclaim 12,000 acres between East Rosebud and river and Red Lodge Creek. $190,000. D. Lay, Red Lodge, dist. engr. Noted Sept. 15.

Mo., Skidmore—Skidmore-Maitland D.D., c/o G. L. Larkin secy., Skidmore, probably take bids in June, for system in Nodaway and Holt Counties, 355,000 cu.yd. excav., $44,200; one 120 ft. highway bridge, 16 ft. roadway, $5,800. W. B. Hazen, Commercial Bldg., St. Joseph, engr.

Okla., Tulsa—Having plans prepared 2½ mi. open ditch and 2 bridges, Park View D. D. 2. $40,000. Hughes Eng. Co., 304 Bank Commerce Bldg., engrs.

Idaho, Twin Falls—Milner Low Lift Irrigation Dist. plans 500 hp. motor and 24 in. centrifugal pump in main plant; also new plant lifting water out of present 70 ft. canal to higher canal, 46 ft. additional, and covering 800 acres, incl. two 40 hp. induction motors, 10 in. pumps, 1000 ft. 20 in. pipe and 3 mi. canal 5 ft. bottom, $50,000. E. V. Berg, Twin Falls, engr.

BIDS DESIRED

N. Y., Holley—Dec. 20, by C. L. Cadle, supt. Pub. Wks., Albany, removing material from canal prism at Orr's Bridge, east of here, Terminal Contr. 207.

Minn., Jackson—Dec. 14, by P. D. McKellar, aud. Jackson Co., drainage work in Jackson and Noble Counties, incl. Judicial Ditch 65, 15,750 ft. 6-24 in. tile, $10,225; Judicial Ditch 76, 73,323 ft. 6-30 in. tile and 15 retaining walls, $143,094; Judicial Ditch 83, 18,040 ft., 6-26 in. tile, $16,436; Judical Ditch 84, 73,600 ft. 6-32 in. tile and 15 retaining walls, $122,830.

Mo., Carrollton—Dec. 20, by Norborne D. D., 100 mi. ditch and levee work. Elliott & Harman Eng. Co., Peoria, Ill., engrs.; adv. this issue.

CONTRACTS AWARDED

Tex., Wichita Falls—See "Waterworks."

Streets and Roads

PROPOSED WORK

N. Y., Rochester—See "Miscellaneous."

North Carolina—State Hy. Comn., Raleigh plans grading, bridging and surfacing 10.5 mi. road from Statesville to Turnersburg, State Project 641, Iredell Co., $50,000, 10.4 mi. from Charlotte to Gaston Co. line, toward Mt. Holly, State Project 656, Mecklenburg Co., $50,200, 6.1 mi. from Anson Co. line to Rockingham, State Project 662, Richmond Co., $30,000; clearing, grading, bridging and surfacing 12.1 mi. from Stanly Co. line to Granite Quarry, State Project 669, Rowan and Cabarrus Counties, $60,000, 12.5 mi. from Rockingham to South Carolina line, State Project 664, Richmond Co., $62,000, 13.5 mi. from Ellerbe Springs to Montgomery Co. line, State Project 663, Richmond Co., $67,500, 13.8 mi. from Charlotte to South Carolina line, State Project 657, Mecklenburg Co., $70,000; clearing, grading and surfacing 11.7 mi. from Turnersburg to Yadkin Co. line, State Project 642, Iredell Co., $55,000; grading and surfacing 4.4 mi. from Cabarrus Co. line to Landis, State Project 670, Rowan Co., $25,000. C. M. Upham, state highway engr.

North Carolina—State Hy. Comn., Raleigh, plans clearing, grading and surfacing 13 mi. road from Laurenburg to Hoke Co. line, State Project 678, Scotland Co., $70,000, 11.5 mi. from Laurenburg to Richmond Co. line, State Project 679, Scotland Co., $56,000; grading, bridging and surfacing 3.7 mi. from Iredell Co. line to end of penetration road, State Project 672, Rowan Co., $27,000; grading and surfacing 6.8 mi. from Salisbury toward Statesville, State Project 671, Rowan Co., $35,000. C. M. Upham, state highway engr.

N. C., Littleton—See "Sewers."

N. C., Marion—McDowell Co. plans clearing, grading and bridging 7.5 mi. road. $53,000. H. F. Little, chn. co. highway comn.

N. C., Waynesville—Haywood Co. plans 5 mi. road from here to Dellwood, concrete, $150,000; 5 mi. road from Canton to Woodrow, asphaltic or concrete, $145,000. T. L. Gwyn, Springdale, chn. bd. 40. comrs.

N. C., Wentworth—Rockingham Co. plans 10,700 sq.yd. asphalt pavement from Dillons Store to Carolina Heights, near Spray, 18 ft. $32,000. M. L. Heiner, Spray, co. comr.

Florida—State Rd. Dept., Tallahassee, plans paving 54 mi. Dixie Highway, 16 ft., bituminous macadam and asphalt. $600,000. Cost to be borne by State Rd. Dept. and counties. C. A. Browne, state highway engr.

Fla., Miami—Dade Co. having plans prepared paving 2 mi. Beach Drive from Fulford to Broward Co. line, 16 ft. $29,000.

Fla., Sebring—Highlands Co. plans paving 2 mi. road from Lake Annie to Josephine Creek, 16 ft. penetration macadam or asphalt. $35,000. C. A. Browne, Tallahassee, state highway engr.

Alabama—State election Jan. 30, to vote on $25,000,000 bonds for highways and bridges. W. S. Keller, Montgomery, state highway engr.

Tennessee—State Hy. Dept., Nashville, lets contracts early in 1922 112 mi. Federal aid road projects in various counties, 16 and 18 ft. D. Q. McComb, Nashville, cn. engr.

O., Cleveland—Plans paving East 90th, East 91st, East 93rd, East 94th, East 96th, East 97th, East 98th, East 99th, East 105th, East 107th, East 108th, East 110th, East 111th, East 112th, East 114th, East 115th, East 116th, East 118th, East 119th, East 120th, East 123rd, East 124th and East 125th Sts. $250,000. Will mature in spring. R. Hoffman, City Hall, engr.

O., Dayton—Montgomery Co. plans paving 3 mi. Germantown-Middletown Rd. from Germantown to Butler Co. line, concrete or brick on concrete. $60,000. P. S. Bookwalter, Dayton, co. surv.

Mich., Detroit—Plans prepared paving 12th St. from Fenkel to Pilgrim Aves., $30,910, Canton Ave. from Harper to Mound Aves., $9,045, both 26 ft., asphalt on 8 in. concrete; also 10 alleys, 13-20 ft., 1 course concrete, $22,355. C. W. Hubbell, city engr.

Ill., Champaign—Making plans paving West Clark St., concrete, $30,000. F. C. Lohman, City Hall, engr.

Ill., Winnetka—Making plans paving Foxdale Rd., concrete, $30,000. Windes & Marsh, 598 Birch St., engrs.

Wis., Juneau—Dodge Co. voted to improve following, 7 mi. Waupun-Beaver Dam Rd., $128,000, 4 mi. Juneau-Theresa Rd., $150,000, 7½ mi. Columbus-Clyman Rd., $200,000, 7 mi. Trunk Highway 29, Juneau-Histisford Rd., $225,000, all foregoing 18 ft. concrete; 1½ mi. South Beaver Dam Rd., $25,424, ½ mi. Clyman-Village Rd., $10,000, both 9 ft., concrete; grading 3½ mi. Watertown-Hustisford Rd., $30,000; graveling 3 mi. Beaver Dam-Randolph Rd., $30,000, 3 mi. Rubicon-Theresa Rd., $24,000, 4½ mi. Horicon-Iron Ridge Rd., $40,000, 4 mi. Portland-Danville Rr., $18,000, all 16 ft.; Federal aid construction on State Trunk Highway 15, concrete, $52,500. Total $1,215,424. E. T. Klug, comr.

Wis., Sheboygan Falls—Making plans paving 1.1 mi. Pine, Mill, York, School and Elm Sts., 22-25 ft., rein.-con., concrete curbs and gutters. $45,000. J. Donohue, 608 North 8th St., Sheboygan, engr.

Wis., West Bend—Washington Co. authorized sale of $700,000 bonds improving following roads, 7½ mi. Trunk Highway 15, from 2 mi. west of Schleisingerville to Dodge Co. Line; 5 mi. Trunk Highway 20 from Trunk Highway 15 to city of Hartford; 8½ mi. Trunk Highway 55, from paving south of here, north to Fond du Lac Co. line; all 18 ft. concrete.

Ia., Carroll—Carroll Co. plans grading 3 mi. Primary Rd. Project 46 between Coon Rapids and Greene Co. line, and section of road in Coon Rapids. $45,000. C. H. Hill, Carroll, engr.

Ia., Clinton—Clinton Co. making plans paving 2 mi. Ridge Rd. through Clinton, Charlotte and Goose Lake. $50,000. E. Lorenzen, Court House, engr.

Ia., Tipton—Making plans paving 12 blocks. $40,000. Tschirgi & Sons, Amer. Trust Bldg., Cedar Rapids, engrs.

Minn., Northfield—Making plans paving 10,000 sq.yd. $33,000. Worthington Eng. Co., 317 McKnight Bldg., Minneapolis, engrs.

S. D., Beresford—Plans paving 10 blocks. $35,000. E. K. Mather, clk. Engineer not announced.

Missouri—State Hy. Dept., Jefferson City, plans 6.693 mi. road from Mound City eastward, State Aid Project 20.37, Holt Co., 70,647 cu.yd. earth excav., 8,719 cu.yd. borrow, 26,922 cu.yd. per 100 ft. overhaul and 201.2 cu.yd. concrete masonry, etc., $48,973; 2.841 mi. road from Grant City southward, State Aid Project 20.117, Worth Co., 47,080 cu.yd. earth excav., 97,304 cu.yd. overhaul and 44.2 cu.yd. concrete masonry, etc., $29,091. A. Graham, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans 5.723 mi. road from Alton eastward, State Aid Project 20.123, Oregon Co., 43,930 cu.yd. earth excav., and 323.5 cu.yd. concrete masonry, etc. $31,577. A. Graham, state highway engr.

Mo., Clinton—Plans to pave various streets, vitr. brick on concrete. $35,000. H. C. Allen, Clinton, engr.

Tex., Beaumont—Jefferson Co. election Dec. 20, $2,000,000 bonds permanent paving state and main county highways, also building large bridge over Neches River. Address J. B. Peek, co. judge.

Tex., Brady—McCulloch Co. election Dec. 20, $600,000 bonds grading and gravel surfacing state and main lateral county highways, 16 ft. E. A. Burrows, co. engr.

Tex., Franklin—Robertson Co. voted $150,000 bonds to grade and gravel surface Rd. Dist. 7, 16 ft. L. Acker, Nacogdoches, co. engr.

Tex., Orange—Orange Co. election Dec. 23, $700,000 bonds paving Highway 3 and county highway also building bridge over Sabine River. J. E. Johnson, co. engr.

Tex., Pecos—Reeves Co. making plans grading and gravel surfacing 19.94 mi. Toyahvale-Kent Rd., 16 ft. $71,703. A. J. Adcock, Grandfalls, engr.

Okla., Bigheart—Having plans prepared concrete paving 4 blocks, 56 ft. $41,000. Hughes Eng. Co., 304 Bank of Commerce Bldg., Tulsa, engrs.

Okla., Wynnwood—Having preliminary plans prepared paving Main St. $105,000. V. V. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Cal., Newman—Takes bids about Dec. 13, grading and paving R, Yolo, P, Tulare, Merced and other streets, 261,741 sq.ft. 1½ in. Warrenite on 3 in. black base, 132,753 sq.ft. 1½ in. Warrenite on 3½ in black base, 432,842 sq.ft. grading, 8,136 lin.ft. com-

Streets and Roads (Continued)

bined curb and gutter, 2,519 lin.ft. gutter, 882 lin.ft. curb, 2,410 sq.ft. concrete paving, 20,430 sq.ft. 4 in. concrete sidewalk, etc. $155,214. W. R. Sherman, Newman, engr.

Ontario — Dept. Provincial Highways, Parliament Bldgs., Toronto, soon receives bids for 36.95 mi. concrete pavement, 25.25 mi. asphalt pavement, 12.65 mi. bituminous penetration macadam, 9 mi. macadam road, 43.8 mi. macadam base, 43¾ mi. earth and rock work, 300 mi. grading, Prince Edward Bridge in Belleville, 1,000 concrete culverts and extensive graveling. $5,000,000. G. Hogarth, Parliament Bldg., Toronto, ch. engr.

BIDS DESIRED

N. Y., Brooklyn—Dec. 14, by E. Riegelmann, boro pres., Boro Hall, paving Bay 28th St. from Bath to Cropsey Aves., Clara St. from Chester Ave. to Dahill Rd., Dumont Ave.from Cleveland to Elton Sts., East 7th St. from Ditmas to 18th Aves., Ave. H from Ocean Parkway to East 7th St., Lott Ave. from Amboy St. to Hopkinson Ave., Newport St. from Christopher Ave. to Sackman St. and from Powell to Junius Sts., Rugby Rd. from Newkirk Ave. to point 320 ft. north of Foster Ave., Van Sinderen Ave. from Fulton St. to Atlantic Ave., West 28th St. from Mermaid to Neptune Aves., 20th Ave. from 83rd to 86th Sts., 21st Ave. from 78th to 80th Sts., 48th St. from 9th to 10th Aves., 58th St. from Ft. Hamilton Parkway to 9th Ave., 67 St. from 3rd to 4th Aves., 67th St. from Ft. Hamilton Parkway to 10th Ave., 75th St. from 20th to 21st Aves., 77th St. from 15th to 16th Aves., 78th St. from 6th to 7th Aves., 90th St. from Ridge Blvd. to 3rd Ave., Ridge Blvd. from 79th to 86th Sts., permanent asphalt on 6 in. concrete; grading sidewalk space, curbing and flagging Division Pl. from Kingsland to De-Bevois Aves.; grading, curbing and laying sidewalks on Van Sinderen Ave. from Fulton St. to Atlantic Ave., 21st Ave. from 78th to 80th Sts., and 78th St. from 21st Ave. to Bay Parkway; grading, curbing, laying and relaying sidewalks on 20th Ave. from 83rd to 86th Sts., Proposition 1, 20th Ave. from 83rd to 86th Sts., Proposition 2.

N. Y., Long Island City—Dec. 12, by M. E. Connolly, pres, Queens Boro, Queens Subway Bldg., paving Decatur St. from Forest to Cypress Aves., sheet asphalt; grading 107th Ave. from 158th to 159th Sts.; grading and guttering 3rd and 130th Sts., repaving Kingsland and Jamaica Aves.

Md., Mt. Rainier—Dec. 19, at office Mayor and Common Council, cinder road surfacing and appurtenant work on Bunker Hill Rd. and 30th St. B. R. Sherwood, clk.; adv. this issue.

Illinois—Dec. 20, Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 5.96 mi. Route 7, Sect. 3, Henry Co.; 1.59 mi. Route 10, Sect. 28, Piatt Co.; 2.2 mi. Route 10, Sect. 32, Champaign Co.; 3.02 mi. Route 12, Sect. 16, Marion Co.; 7.2 mi. Route 15, Sect. 16, Jefferson-Wayne Co.; 4.98 mi. Route 15, Sect. 17, Wayne Co.; 5.59 mi. Route 15, Sect. 18, Wayne Co.; 17.77 mi. Route 15, Combination A, Jefferson-Wayne Co.; 6.21 mi. Route 28, Sect. 7, Henry-Bureau Co.; 5.68 mi. Route 28, Sect. 8, Bureau Co.; 11.89 mi. Route 28, Combination B, Henry-Bureau Co.; 5.8 mi. Route 31, Sect. 3, Adams Co.; 5.7 mi. Route 31, Sect. 4, Adams Co.; 2.09 mi. State Aid 10, Sect. E, Iroquois Co.; 11.5 mi. Route 31, Combination C, Adams Co.; all foregoing 18 ft., alternate bids on following types, concrete (Portland cement), 4 in. monolithic brick, bituminous concrete with and without binder course. Grading 7.21 mi. Route 13, Sect. 9-A, Saline Co., 6.32 mi. Route 13, Sect. 10-A, Gallatin Co., 6.42 mi. Route 13, Sect. 11-A, Gallatin Co.; 19.95 mi. Route 13, Combination D, Saline-Gallatin Co., 30 ft. 0.3 mi. Project 8, Sect. V-3, Macoupin Co., 32 ft. C. Older, ch. highway engr.

Ill., Benton — Dec. 19, grading, paving and building sewers in 1 mi. South Main St., 8,613 sq.yd. concrete, 5,500 ft. curb, 5,800 cu.yd. earth excav., and 1,771 ft. 10-24 in. vitr. pipe. $46,833. C. B. Mautz, city engr.

Ia., Davenport—Dec. 15, by J. Wagner, aud. Scott Co., grading and paving 3 mi. Davenport-Mt. Joy-Gambril Rd., 27,589 cu. yd excav., 32,354 sq.yd. paving, 6,903 lin. ft. 6 in. and 2,000 ft. 8 in. tile; Davenport-Le Claire Rd., 64,297 cu.yd. earth and 1,778 cu.yd. rock excav., 2,374 ft. 6-12 in. tile. $142,000. J. M. Malloy, Davenport, engr.

Minn., Breckenridge—Dec. 19, paving 7 blocks 8th St. N. from Minnesota Ave. to Bede Ave. and 5th St. from New York to Bede Aves. $25,000. R. R. Waite, clk. Noted Sept. 15.

Minn., Blue Earth—Dec. 16, by J. L. Herring, aud. Faribault Co., gravel surfacing 19 mi. Federal Aid Project 119, State Rd. 2, 45,000 cu.yd. gravel. $32,000. L. Quarve, Blue Earth, engr.

Minn., Wadena—Dec. 19, by N. Peterson, clk., for 16,391 sq.yd. pavement. $60,000. J. W. Shaffer & Co., 917 New York Life Bldg., Minneapolis, engrs. Noted Feb. 24.

S. D., Winner—Jan. 9, 30,000 sq.yd. paving. $115,000. Smith & Reeves, Mitchell, engrs. Noted Mar. 17.

Mo., Van Buren—Dec. 13, by Carter Co. grading 4 mi. road. $40,000. Elston, Axon & Russell, McDaniels Bldg., Springfield, engrs.

Tex., Cuero—Dec. 12, by J. L. Boal, judge De Witt Co., clearing, grading and gravel surfacing 10.31 mi. State Highway 29, 16 ft., Federal Aid Project 114. J. G. Irby, co. engr. Noted Nov. 10.

Tex., Dallas—Dec. 19, by Comrs. Dallas Co., paving with asphaltic macadam and gravel surfacing 12.5 mi. Preston Rd., $207,581; 25.7 mi. Irving-Coppell Rd., $306,000. Nagle-Witt-Rollins Eng. Co., Amer. Exch. Bank Bldg., engrs.

Tex., Georgetown — Dec. 19, by F. D. Love, judge Williamson Co., grading and surfacing 7.51 mi. State Highway 36-B, Federal Aid Project 255, 3,504 cu.yd. borrow, 25,564 cu.yd. roadway, 280 cu.yd. loose and 137.5 cu.yd. solid rock excav., 434 cu.yd. concrete, 34,999 lb. reinforcing, 12,839 cu.yd. limestone shale. $40,765. R. A. Nichols, co. engr.

Tex., Hondo—Dec. 15, by R. J. Noonan, judge Medina Co., grading and gravel surfacing 2.85 mi. Highway 2, The Meridian Highway, from Frio Co. line northeast, 397.4 cu.yd. concrete, 13,838 cu.yd. roadway excav., 7,342 cu. yd. gravel, 4,718 lb. reinforcing, $36,918; 10.57 mi. State Highway 2, Atascosa Co. line to 1.9 mi. south of Devine, 3,185 cu.yd. borrow, 50,441 cu.yd. roadway excav., 1,411.02 cu.yd. concrete 26,468 cu.yd. gravel, 84,942 lb. reinforcing, $154,517. Walton & Arneson, Gunter Bldg., San Antonio, co. engrs.

Tex., Kerrville—Dec. 17, by L. Wallace, judge Kerr Co., grading, gravel surfacing and bridging 11.05 mi. State Highway 27, from Mountain Home to Ingram, 79.2 acres grubbing, 61,215 cu.yd. roadway, 8,373 cu.yd. loose and 18,204 cu.yd. solid rock excav., 1,029.4 cu.yd. concrete, 113.2 cu.yd. concrete pavement, 18,632 cu.yd. gravel, $119,587; 6.67 mi. Highway 27, from here to Ingram, 27,095 cu.yd. roadway and 992 cu.yd. solid rock excav., 827.3 cu.yd. concrete, 14,241 cu.yd. gravel, 63,859 lb. reinforcing, $46,686; 13.93 mi. State Highway 27 from Kimble Co. line to Mountain Home, 66.7 acres grubbing, 401.1 cu.yd. concrete, 354.04 cu.yd. concrete pavement, 2,932 cu.yd. gravel and 8,857 cu.yd. shale surfacing, 10,139 cu.yd. crushed rock, 37,905 lb. reinforcing, $102,398. W. E. Simpson, Co. 414 Natl. Bank of Commerce Bldg., San Antonio, engrs. Noted May 5.

Tex., Olton—Dec. 19, by R. C. Hopping, judge Lamb Co., grading and sand clay surfacing 34 mi. Highway 28, State Aid Project 249, 40,836 cu.yd. roadway, 1,065 cu.yd. structural excav., 700.64 cu.yd. concrete, 45.151 lb. reinforcing, etc. $70,000. C. L. Hasie Eng. Co., Littlefield, engrs. Noted Nov. 17.

Tex., Pecos — Dec. 22, by J. F. Ross, judge Reeves Co., grading and surfacing 26.8 mi. Highway 27 from Toyahvale to Pecos Co. line, Federal Aid Project 240. $103,174. A. J. Adcock, Grandfalls, co. engr. Noted Nov. 10.

Tex., Wharton—Dec. 14, by W. G. Davis, judge Wharton Co. surfacing with gravel, bituminous topping 5.9. mi. Highway 3 from San Bernard River west, 53,309 gal. asphaltic oil, 2,220 cu.yd. crushed stone at quarry, 17,252 cu.yd. gravel, $75,000; 6.4 mi. State Highway 3 from Colorado Co. line east, State Aid Project 50, 57,794 gal. asphaltic oil, 2,407 cu.yd. crushed rock, 18,880 cu.yd. gravel, $85,000. Nagle-Witt-Rollings Eng. Co., Wharton, co. engrs. Noted Dec. 1.

New Mexico—Dec. 20, State Hy. Dept., Santa Fe, grading, gravel surfacing and building culverts and bridges on 3.14 mi. State Aid Project, Madrid-Los Cerrillos, Santa Fe Co., 13,973 cu.yd. common and 702 cu.yd. rock excav., 4,407 cu.yd. Class 1 borrow, 2,763 cu.yd. gravel, 153.34 cu.yd. concrete; grading, shaping and crowning, building structures on 14.181 mi. Carlsbad-Lovington Rd., Federal Aid Project 70, Lea Co., 1,867 cu.yd. excav., 55,669 cu.yd. Class 1 borrow, 49.85 cu.yd. concrete; grading, paving and building structures on 6.698 mi. Albuquerque-Pajarito, Federal Aid Project 61-B, Bernalillo Co.; 8,162 cu.yd. excav., 8,375 cu.yd. Class 1 borrow, 3,903 station yd. overhaul, 180.9 cu.yd. concrete, 9,984 cu.yd. concrete pavement, 10 920 sq.ft. metal reinforcement (pavement); 6.809 mi. Berino-Anthony, Federal Aid Project 66, Donaana Co., 7,381 cu.yd. excav., 6,998 cu.yd. Class 1 borrow, 4,797 station yd. overhaul, 126 cu.yd. concrete, 10,654 cu.yd. concrete pavement 1:23 mix, 46,096 sq.ft. metal reinforcement. L. A. Gillett, state highway engr.

California—Dec. 19, by State Hy Comm., Sacramento, grading 7.3 mi. highway between Sloat Blvd. and Sneath Rd., San Francisco and San Mateo Counties. A. B. Fietcher, state highway engr.

Cal., Mill Valley—Dec. 13, by Bd. Trustees, grading, bridging and paving portions of Cascade Drive, Josephine St. and others, 24,744 cu.yd. grading, 443,140 sq.ft. hydraulic concrete paving, 1,792 lin.ft. 8-30 in. corrugated pipe, one 60 ft. viaduct, two 10 ft. and two 12 ft. spans, etc. J. C. Oglesby, Cheeda Blk., San Rafael, engr.

BIDS RECEIVED

Vermont—State Highway Dept., Montpelier, 2.3 mi. bituminous macadam road in Highgate Co., from Hoyt Constr. Co., Holyoke, Mass., $70,445, Arborio Rd. Constr. Co., Hartford, Conn., $71,627, Guild & Douglas, Springfield, $77,468; 7 mi. gravel road, Marshfield and Cabot Counties, from Streeter & Sons, Glenwood Park, Worcester, Mass., $157,108, W. E. Dix, Springfield, $170,161, R. Hopkins, 824 2nd Ave., Troy, N. Y., $172,793; 4 mi. gravel road, Cambridge Co., P. Ricci, Rutland, $73,276; Arborio Rd. Constr. Co., Hartford, Conn., $78,951, G. L. Gregoire, Barre, $81,430. Noted Nov. 17.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids Dec. 1, repaving Nevins St., from Leonard Paving Co., 233 Bway., New York, $7,949, F. J. Gallagher, 490 Park Pl., $8,003; Ridge Blvd., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $31,346, Borough Asphalt Co., 1301 Metropolitan Ave., $34,765, Uvalde Asphalt Co., 1 Bway., New York, $39,432; Tillary St., from R. J. Donovan, 618 Union St., $11,420, C. Gallagher, 745 Dean St., $11,964, J. D. Norton, 20 Sterling Pl., $12,044. Noted Nov. 24.

North Carolina—State Hy. Dept., Raleigh, improving (1) 10.59 mi. State Project 639, Iredell Co., (a) clearing, grading and concrete or asphaltic paving, (b) rein.-con. bridges and culverts, (2) 8.84 mi. State Project 653, Mecklenburg Co., (a) grading and concrete or asphaltic paving, (b) rein.-con. bridges and culverts, (3) 9.87 mi. State Project 456, Orange Co., (a) clearing and grading, (b) rein.-con. bridges and culverts; grading and concrete or asphaltic paving, (4) 1.57 mi. State Project 655, Mecklenburg Co., (5) 10.85 mi. State Project 622, Catawaba Co.; clearing grading and concrete or asphaltic paving 8.5 mi. State Project 632, Gaston Co., from R. M. Hudson Co., Salisbury, (1a) $332,545, (2a) $282,260; Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., (1b) $19,681, (2b) $10,725; Porter & Boyd, Realty Bldg., Charlotte, (1a) $340,744, (6) $269,590; J. E. Lane & Co., Altavista, Va., (1b) $20,392; Union Paving Co., 30th and Locusts Sts., Phila., Pa., (1a) $345,697, (2a) $269,941, (5) $322,241, (6) $264,427; E. R. Griffith Constr. Co., Salisbury, Md., (1b) $20,759, (2b) $11,427, (4) $58,975; Simmons Constr. Co., Charlotte, (2a) $273,927; Reid & Lowe, Piedmont Bldg., Charlotte, (2b) $11,310; Crawford & Crawford, Mebane, (3b) $17,443; N. L. Teer, Durham, (3b) $16,611; W. W. Tuck & Son, Virgilina, Va., (3a) $17,527; W. M. Shook, Liberty, (3a) $17,731; Hazell-Connerat-Quist Co., Savannah, Ga., (3b) $16,977; Speed Parker, Inc., Norton Bldg., Louisville, Ky., (4) $51 459 W. A. Ebert, Latta Arcade, Charlotte, (4) $53,855; Atlantic Bitulithic Co., Virginia Ry. & Power Bldg., Richmond, Va., (5) $334,994; Hyde & Baxter, 711-13th St., N. W., Wash., D. C., (5) $336,140; Davis Wilcox Constr. Co., Spencerville, O., (6) $263,712. Noted Nov. 17.

Alabama—State Hy. Comn., Montgomery, grading and surfacing with local chert, 17.758 mi. road between Ft. Payne and Collinville, from J. P. Dicus, Burgaw, N. C., $159,326; Finne Co. & Wallace Bros., Tuscaloosa, $166,098; J. H. Hopkins & Co., Bessemer, $167,197. Noted Nov. 10.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 5.69 mi. Route 7, Sect. 3, Henry Co., from J. J. Dunnegan, Shenandoah, Ia., $147,000, L. S. Kuhn, Bloomington, $149,639; grading 0.3 mi. Federal Aid 8, Sect. 3, Macoupin Co., from Alzina Constr. Co., Springfield, $9,213, W. F. Smith & Co., Rensselaer, Ind., $10,620, R. Culbine, Gillespie, $10,873.

Minnesota—State Hy. Comn., St. Paul, (1) State Project 35-21, Federal Aid Project 245, Aitkin Co., (2) State Project 23-21, Federal Aid Project 234, Benton Co. (3) State Project 23-22, Federal Aid Project 243, Benton and Mille Lacs Co., from Winston Bros., 801 Globe Bldg., Minneapolis, (1) $54,706; Cox Constr. Co., Gilfillan

Streets and Roads (Continued)

Block, St. Paul, (1) $57,313; D. W. Moore, 894 Edmund St., St. Paul, (1) $58,540; Wilkins & Pettijohn, Park Rapids, (2) $33,910 (3) $37,927; Thomas & Thursdale, c/o State Hy. Dept., St. Paul, (2) $36,298; W. H. Duffy, Fairmount, (2) $36,403 (3) $40,291; Poag & Rundel, c/o State Hy. Dept., St. Paul, (3) $40,622. Noted Nov. 24.

Minnesota—State Hy. Dept., St. Paul, gravel surfacing (1) State Project 28-26, Federal Aid Project 240, Big Stone Co., (2) State Projects 7-21 and 60-21, Federal Aid Project 216, Blue Earth Co., (3) State Project 18-21, Federal Aid Project 217, Sherburne Co., (4) State Project 10-23, Federal Aid Project 210, Meeker Co., (5) State Project 6-26, Federal Aid Project 161-A, Wilkin Co., (6) State Project 9-22, Federal Aid Project 228, Martin Co., (7) State Project 8-24, Federal Aid Project 237, Itasca Co., (8) State Project 8-25, Federal Aid Project 57, Beltrami Co., (9) State Project 10-22, Federal Aid Project 211, Swift, Pope and Stevens Counties, (10) State Project 2122, Federal Aid Project 119-A, Le Sueur Co., from C. F. Sculley Equipment Co., 300 Dakota Bldg., St. Paul, and Connolly Contg. Co., 427 Rice St., St. Paul, (1) $64,616, (2) $17,848 and $9,821, (6) $25,459. Morton & Bjerkness, 365 University Ave., St. Paul, (1) $66,411. C. J. Wheelock, Pierre, S. D., (1) $66,919, (2) $22,483 and $10,867, (5) $16,535, (8) $19,827. Tobin & Maloney, Madison, S. D., (2) $22,299 and $11,086. G. Kinney, Foley, (3) Div. C, $9,938, D, $13,553. F. Fredeen, Taylors Falls, (3) Div. C, $10,935, Div. D, $13,132. L. E. Brophy, 400 Northwestern Bank Bldg., Minneapolis (3) Div. C, $11,173, (8) $19,602, (10) $15,211, Campbell Equipment Co., 230 Oak Grove St., Minneapolis, (3) Div. D, $11,012, (5) $16,638, (7) $30,268, (8) $16,840, (9) $20,850. C. Weaver, Anoka, (4) $17,867. Scott & Co., 3015 Nicollet Ave., Minneapolis, (4) $18,966. Felin & Smith, St. Paul, (4) $20,526, Miller Constr. Co., Grain Exch. Bldg., Sioux City, Ia., (5) $16,151. J. H. Huff, St. Paul, c/o State Hy. Dept., (6) $25,016. G. H. Gatzemeyer, 5120 Upton Ave., S., Minneapolis, (6) $27,490. Dobbleman & Rasmussen, 4232 Colfax Ave., S., Minneapolis, (9) $20,066, (10) $14,430. Motor Hauling Equipment Co., 310 1st Ave., N. E., Minneapolis, (9) $22,457. S. J. Peterson, 300 West Lake St., Minneapolis, (10) $13,954. Floan-Sundstrum Co., Hibbing, (7) Div. B, $7,564, (A and B combined) $31,562. Northern Road & Constr. Co., 2214 Sheridan Ave., N., Minneapolis, (7) Div. A, $19,897. Noted Nov. 17.

Minnesota—State Hy. Comn., St. Paul, opened bids Nov. 30, gravel surfacing (1) State Project 28-28, Federal Aid Project 205, Todd Co., (2) State Project 28-21, Federal Aid Project 209, Stearns Co. (3) State Project 9-23, Sect. B, Federal Aid Project 224, Jackson Co. (4) State Project 2-25, Federal Aid Project 242, Cass Co. (5) State Project 30-32, Federal Aid Project 117, Mahnomen Co. (6) State Project 3-24, Federal Aid Project 218, Wabasha Co. (7) State Project 68-21, Federal Aid Project 214, Lyon Co.; grading and paving, concrete (8) State Project 1-21, Federal Aid Project 212, Dakota Co., from S. C. Mitchell, Rochester (1) $14,161 (6) $17,612 (7) $28,849. Dobbleman & Rasmussen, 4232 Colfax Ave. S., Minneapolis, (1) $14,853 (2) $2,795 (4) $9,105 (5) $41,067 (7) $15,210. Campbell Equipment Co., 230 Oak Grove St., Minneapolis, (1) $15,523. C. Jones, Sioux Falls, S. D., (3) $14,751 (7) $30,252. G. H. Gatzmeyer, 5120 Upton Ave. S., Minneapolis, (3) $14,086 (6) $16,591. G. H. Atkinson Paving Co., Watertown, S. D., (3) $15,132 (7) $30,966. W. Kinney, Foley, (4) $8,549. Lange Constr. Co., 738 Western Ave., N., St. Paul, (4) $8,720 (7) $15,264. Evanson & Utterberg, 552 Builders Exch. Bldg., Minneapolis, (5) $42,878. Tobin & Maloney, Madison, S. D., (5) $42,146. C. F. Sculley Equipment Co., 300 Dakota Bldg., and Connolly Contg. Co., 427 Rice St., St. Paul, (7) $16,892, Low-Butler Bros. Building Co., Hamm Bldg., St. Paul, (8) grading $0.40 per cubic yard., concrete pavement, gravel base, $2.26 per square yard, stone mesh $2.29, gravel mesh $2.31, total $606,000. Noted Nov. 17.

Missouri—State Hy. Dept., at div. office Perryville, opened bids Nov. 10, 1,403 mi. road Project 20,114, Perry Co., (1) 33,145 cu.yd. earth excav., (2) 6,671 cu.yd. rock excav., etc., from Allhands & Davis, Joplin, (1) $0.265, (2) $1.60, total, $35,621; Service Constr. Co., Poplar Bluff, (1) $0.38, (2) $1.95, $35,774; Kiefner, Morton, Geile and others, Perryville, (1) $0.329, (2) $1.50, $36,448.

Wash., Seattle—Opened bids Nov. 26, grading and paving Elliott Ave., et al, (a) clay, (b) concrete pipe, from Olympic Constr. Co., 1326 Northlake Ave., (a) $324,604, (b) $324,604; Fiorito Bros., New York Block, (a) $327,469, (b) $326,304; John & Bressi Co., New York Block, (a) $325,166, (b) $325,913.

Cal., Los Angeles—Bd. Supervs. Los Angeles Co., paving College Ave. from Vernon and Downey Rd. to Gallatin, 21,965 sq.yd. asphalt or willite, 2,377 cu.yd. excav., 1,860 ton granite base, from G. R. Curtis, 2440 East 26th St., $47,362; Fairchild, Gilmore, Wilton Co., Pacific Electric Bldg., $52,207; Los Angeles Paving Co., 2900 Santa Fe Ave., $57,614. Noted Nov. 10.

CONTRACTS AWARDED

Massachusetts—State Hy. Dept., Boston, gravel surfacing 21,100 ft. state highway, 18 ft., in Plainfield and Cummington, to G. T. Seabury, Inc., 44 Washington St., Providence, R. I., $77,805. Noted Dec. 1.

N. Y., Brooklyn—E. Riegelmann, boro pres. Boro Hall, to Borough Asphalt Co., 1301 Metropolitan Ave., paving Elmore Pl., $9,676, Glenmore Ave., $2,383, roadway at intersection of New York Ave. and Montgomery St., $1,174, roadway of Williams Ave., $8,095, roadway space between outer rails and curb on 8th Ave., $5,117, roadway of 74th St., $7,550, roadway of 80th St., $6,892; to Cranford Co., 52 9th St., roadway of Senator St., $8,225; to Sicilian Asphalt Paving Co., 41 Park Row, New York, grading, curbing and laying sidewalks on Clarkson Ave., etc., $19,794. Noted Nov. 24.

Pa., Pittsburgh—Grading, paving and curbing Ravenna St., to Booth & Flinn, Ltd., Forbes St., $27,005.

Fla., Okeechobee—Paving portions North Park, South Park, Osceola, Hicpochee, Miamee, Kissimmee, Hancock, Petit, 2nd, 7th, 9th, 8th and 6th Sts., Parrott, Okeechobee, 10th and 5th Aves., 3 in. penetration macadam, asphalt or oil binder, probably 8 in. rock base, to Maule Paving Co., Ojus, $90,000. Noted Nov. 17.

Alabama—State Hy. Dept., Montgomery, grading and surfacing 4.664 mi. road from Mobile to Chicasaw via St. Stephens Rd. and Pritchard, Mobile Co., to Hancock Bros., 162 Conti St., Mobile, $148,327 Noted Nov. 10.

Illinois—Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving (1) 4.55 mi. Route 2, Sect. 24, Fayette Co., (2) 4.82 mi. Route 2, Sect. 25, Fayette-Marion Co., (3) 4.4 mi. Route 2, Sect. 26, Marion Co., (4) 4.52 mi. Route 2, Sect. 27, Marion Co., (5) 4.34 mi. Route 2, Sect. 28, Marion Co., (6) 3.47 mi. Route 2, Sect. 29, Marion Co., (7) 3.98 mi. Route 2, Sect. 30, Marion-Washington Co., (8) 4.53 mi. Route 2, Sect. 31, Washington Co., (9) 3.29 mi. Route 2, Sect. 32, Washington Co., (10) 2.76 mi. Route 2, Sect. 33, Washington Co., (11) 6.86 mi. Route 3, Sect. 68, Monroe Co., (12) 4.64 mi. Route 5, Sect. 19, Stephenson Co., (13) 2.53 mi. Route 5, Sect. 20, Stephenson Co., (14) 4.64 mi. Route 5, Sect. 21, Stephenson Co., (15) 5.45 mi. Route 5, Sect. 22, Stephenson Co., (16) 5 mi. Route 5, Sect. 23, Stephenson-Jo Daviess Co., (17) 5.2 mi. Route 7, Sect. 6, Henry Co., (18) 1.35 mi. Route 7, Sect. 8-C, Bureau Co., (19) 4.45 mi. Route 7, Sect. 9, Bureau Co., (20) 5.57 mi. Route 7, Sect. 10, Bureau Co., (21) 1.36 mi. Route 7, Sect. 11, Bureau Co., (22) 6.85 mi. Route 31, Sect. 1, Adams Co., (23) 7.54 mi. Route 31, Sect. 2, Adams Co., grading (24) 5.06 mi. Route 3, Sect. 38-A, McDonough Co., (25) 0.24 mi. Route 4, Sect. 4-A, Will Co., (26) 5.57 mi. Route 37, Sect. 1-A, Jefferson Co., to Mautz & Oren, Effingham (1) $92,840, (2) $95,417, (3) $86,460, (4) $87,817. J. W. Etchison, Casey, (5) $89,773, (6) $72,354. E. Berns & Co., Indianapolis, Ind., (7) $88,746, (8) $101,812, (9) $69,757. (10) $58,755, Powell & Gaven, Collinsville, (11) 143,414. Federal Paving Co., 133 West Washington St., Chicago, (12) $97,169, (13) $57,617, (14) $96,820, (15) $112,685, (16) $115,709. Trompeter & Son, Peru, (17) $105,767. Webber Co., Ionia, Mich., (18) $29,720, (19) $101,666, (20) $117,670, (21) $30,316. F. Rees, Quincy, (22) $128,977. Cameron, Joyce & Co., Keokuk, Ia., (23) $169,953, (24) $17,591. Powers & Thompson Constr. Co., Joliet, (25) $4,446. Jobst & Gates, 115 South Jefferson St., Peoria, (26) $42,694. Noted Nov. 24.

Minn., Warren—Marshall Co. rejected bids opened Nov. 8, gravel surfacing 4 mi. State Rd. 3, Job 2201, 3 mi. State Rd. 4, Job 2208, 11 mi. State Rd. 4, Job 2205 and 7 mi. State Rd. 5, Job 2209. $25,000. Work will be done by day labor.

Kan., Cherryvale—Paving 15 blocks, to J. O'Leary, Cherryvale, $50,678.

Missouri—State Hy. Dept., Jefferson City, 8.37 mi. road from Canton southward and westward, Federal Aid Project 38, Lewis Co., 36,638 cu.yd. earth and 46,360 cu.yd. rock excav., 18,060 cu.yd. borrow, 75,024 sq.yd. broken stone base course, 4,467 sq.yd. specification B gravel pavement, etc., also 7.94 mi. road north and south through La Grange Special Rd. Dist., Federal Aid Project 39, Lewis Co., 30,882 cu.yd. earth excav., 5,692 cu.yd. borrow, 74,691 sq.yd. specification B gravel pavement, etc., to W. A. Ross, 501 East Armour Blvd., Kansas City, $121,197 and $87,335 respectively.

Tex., Breckenridge—Stephens Co. grading, surfacing, topping and bridging 10.31 mi. State Highway 1, Albany Rd., 18 and 22 ft., and 19.78 mi. State Highway 1, Caddo Rd., 18, 20 and 46 ft., to Womack Constr. Co., McKinney, $220,337 and $301,564 respectively, costs do not include cost of crushed stone furnished by county. Noted Dec. 1.

Okla., Okmulgee—State Hy. Dept., Oklahoma City, paving 11.8 mi. road south from here to Henryetta, asphalt on concrete, for Okmulgee Co., to M. R. Ammerman, 437 South Market St., Wichita, Kan., $411,000.

Okla., Pauls Valley—Paving 12,000 sq.yd. in Dist. 12, vitr. brick, to Standard Paving Co., 321 North Boston St., Tulsa, $72,700. Noted Sept. 29.

Utah—State Hy. Comn., Salt Lake City, grading 12.56 mi. road from Marysville to Junction Rd., Federal Aid Project 19 A, 24 ft., and gravel surfacing 4 mi., 18 ft., to A. C. Young, Richfield, $64,001. Noted Nov. 17.

California—State Hy. Dept., at div. office Los Angeles, grading 12 mi. highway between Flynn Creek and mouth of Navarro River, Mendocino Co., to J. P. Holland, 540 Brannan St., San Francisco, $170,239. Noted Dec. 1.

California—State Hy. Comn., Sacramento, paving 8.4 mi. highway between 2½ mi. east of Naples and Canada de las Llagas and between Los Chizueros and Gaviota Creeks, cement concrete shoulders and asphaltic concrete surface, Santa Barbara Co., to Southwest Paving Co., Washington Bldg., Los Angeles, $92,884; 2.3 mi. between Fresno and point 2.3 mi. northwesterly, asphaltic concrete, Fresno Co., to Federal Constr. Co., Call Bldg., San Francisco. Noted Nov. 17.

Cal., Inglewood—Paving Market and Commercial Sts., and portions of Regent and Quene Sts., 259,384 sq.ft. concrete, to G. H. Oswald, 366 East 58th St., Los Angeles, $66,143.

Industrial Works

PROPOSED WORK

N. Y., New York—Two Forty Two and Two Fifty Two West 36th St. Corp., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., soon takes bids 13 story, 98 x 128 ft., light manufacturing plant, brick and steel, plain foundation, 215-252 West 36th St. $950,000.

Pa., Lansdale—Boro. plans addition to power plant. $250,000. A. Durk, supt.

Pa., Pittsburgh—H. J. Heinz Co. soon takes bids 6 story, 92 x 150 ft. storage plant, Progress St. Excavation and piling contract to Raymond Concrete Pile Co., Union Bank Bldg. Noted Nov. 17.

Ky., Louisville—United Casket Co., 3022 West Chestnut St., had plans prepared by M. Sartoro, archt. and engr., Cleveland, O., 1 story, 100 x 450 ft. dry kiln factory and 40 x 40 ft. boiler house, rein.-con., concrete pile foundation, 12th and Magazine Sts. $300,000.

O., Cleveland—Whitmer-Jackson Sash & Door Co., 1996 West 3rd St., had plans prepared by H. M. Morse & Co., archts., Plymouth Bldg., 1 story, 70 x 128 ft., brick and steel factory addition, plain foundation. $40,000.

Ind., Indianapolis—Alena Steam Products Co., 208 Hume-Mansur Bldg., having plans prepared by F. Hamilton, engr., 208 Hume Mansur Bldg., 1 story, 60 x 260 ft., brick and steel factory, Denny Ave. $45,000.

Ind., Indianapolis—F. R. Chandler, 3817 North Pennsylvania St., having plans prepared by Vonnegut, Bohn & Mueller, archts., 610 Ind. Trust Bldg., 5 story, 60 x 202 ft., brick, steel, concrete and terra cotta garage, 30-32 West Vermont St. $250,000.

Ind., Indianapolis—C. E. Pauley, 112 East Maryland St., plans 5 story, 95 x 135 ft., concrete and brick, North New Jersey St. $225,000. Architect not selected.

Ill., Benton—Benton Ice & Bottling Co. plans ice and bottling plant, brick, North Main St. $100,000. Stegemier & Kennerly, Title Guarantee Bldg., St. Louis, Mo., engrs.

Ill., Chicago—Marshall & Fox, archts., 712 North Michigan Ave., soon take bids 7 story, 100 x 135 ft., publishing plant,

Industrial Works (Continued)

rein.-con., brick and steel, Ontario and St. Clair Sts., for H. W. Windsor, c/o architect. $400,000.

Ill., Chicago—Morand Cushion Wheel Co., 818 South May St., soon takes bids 2 story factory, fireproof construction, Western and 77th Sts. $500,000. J. L. Mrazek, c/o owner, archt.

Ill., Chicago—Newhouse & Bernham, archts., 4630 Prairie Ave., soon take bids 1 story, 100 x 160 ft. garage, rein.-con., brick and steel, Bway. and Fair Oaks St., for L. H. Wolf and E. Bain, c/o architects. $80,000.

Ill., East St. Louis—Natl. Malleable Castings Co. having plans prepared 1 story, 128 x 200 ft. foundry and 111 x 197 ft. annealing rooms, brick and steel. $150,000. Private plans.

Wis., Cudahy—Cudahy Bros. Co. soon take bids 1 story, 82 x 190 ft. box factory, rein.-con. and brick, plain foundation.

Minn., Duluth—F. J. Dacey, pres. Gogebic Boiler Wks., Lake Ave. S., J. A. Newcomb, Spalding Hotel, and associates are incorporating Duluth Central Heating Co., and plan to erect central heating plant, incl. 500,000 ft. steam pipe. Plant will extend from Aerial Bridge on South Lake Ave. to 4th St. betwen 7th Ave. W. and 3rd Ave. E. $1,500,000. J. J. Sawyer, Jr., 512 Sellwood Bldg., engr.

Mo., Jackson—International Shoe Co., 15th and Washington Sts., St. Louis, plans 3 story, rein.-con., brick and steel factory, here. $100,000. A. Hume, c/o owner, mech. engr.

Wyo., Casper—Wyoming Refining Co., 217 Midwest Bldg., purchased 340 acre site, 3 mi. east of here, and plans refinery, first unit with one battery of stills, 7,000 bbl. capacity, to be gradually enlarged to 20,000 bbl. capacity. Project includes 40 mi. pipe line from Salt Creek oil fields. Ultimate cost $10,000,000. W. A. Blackmore, Casper, pres.

Cal., Long Beach—Kimball Motor Truck Co., 1700 East 9th St., having plans prepared 3 factory buildings, on 4 acre site, West Aneheon Blvd. $350,000. Private plans.

Cal., San Leandro—Alameda Co. (Oakland), takes bids about Jan. 1, 1 story laundry and 1 story power house, incl. ice plant, refrigerating plant, incinerator, shops, etc., both tile and frame, on County Infirmary Grounds, here. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Ont., Brockville—I. M. Baxter & Co., Ltd., 102 St. Antoine St., Montreal, Que., plans factory, here. $40,000.

BIDS DESIRED

R. I., Providence—Dec. 12, by Lackwood-Greene & Co., archts. and engrs., 60 Federal St., Boston, 1 story, 200 x 250 ft. machine shop and 2 story, 45 x 99 ft. office, concrete and brick, for Textile Finishing Machine Co., 171 Westminster Ave.

N. Y., Brockport—Dec. 20, by C. L. Cadle, supt. Pub. Wks., Albany, frame freighthouse, also placing and compacting gravel surfacing on terminal site, here, Terminal Contr. 232.

N. Y., Marcy—Dec. 21, by State Hospital Comn., Albany, cold storage building and kitchen, for acute patients at Marcy State Hospital, here.

Pa., Phila—Gurrtz & Co., 1033 Chestnut St., receiving bids 1 story, 60 x 177 ft. brick and steel garage and service station, plain foundation, Broad and Carlisle Sts. $50,000. I. S. Fuler, 1537 Chestnut St., archt.

Pa., Phila.—Dec. 20, Velie Sales Co., 29 West Harvey St., Germantown, 1 story, 50 x 106 ft. brick and steel garage and service station, plain foundation, Price St. and Chellen Ave. $60,000.

Pa., Pittsburgh—Frick & Lindsay Co., Sandusky and Robinson Sts., 7 story, 50 x 50 ft. warehouse addition, Sandusky St. Work will be done by separate contract. Steel contract (290 ton) to McClintic-Marshall Co., Oliver Bldg.

Pa., Templeton—Templeton Limestone Co., Kittaning, 30 x 60 ft. crusher building and 25 x 25 ft. power house, near here. $50,000. Work will be done by separate contract. J. Breslove, Oliver Bldg., Pittsburgh, engr.

Pa., Undercliff (Pittsburgh P. O.)—Seyler Mfg. Co., 1 story, 40 x 60 x 140 x 180 ft. brick and steel plant. Work will be done by separate contracts. Steel contract to Memphis Steel Constr. Co., Magee Bldg., Pittsburgh; rein.-con., to Bower & Hale, 312 Fitzsimmons Bldg., Pittsburgh.

Ind., Michigan City—Dec. 13, by F. D. Chase, Inc., engr. 545 North Michigan Ave., Chicago, 1 story, brick, steel and concrete, power plant and foundry, 4th and Wabash Sts., for Haskell & Barker Car Co., Michigan City.

SUBWAY—NEW YORK, N. Y.

Bids were received by Transit Comn., 49 Lafayette St., Nov. 9 (lowest 3), for extension of Queensboro Subway, Routes Numbers 35 and 67, from (A) Powers-Kennedy Contg. Corp., 149 Bway. (awarded contract); (B) Keystone State Constr. Co. and Paul J. Brown, 17 West 42nd St.; (C) F. L. Cranford, Inc., 149 Remsen St., Brooklyn. The unit bids were as follows:

Item		A	B	C
1	36,500 cu.yd. earth excavation above mean high water	$7.00	$8.00	$11.75
2A	1,900 cu.yd. earth excavation above and below mean high water for sewers, etc	7.10	9.00	7.60
3	81,300 cu.yd. rock excavation	10.25	10.00	11.25
3A	340 cu.yd. rock excavation for sewers, etc	12.50	12.00	13.65
4ACa	Underpinning building N.W. cor. 5th Ave. and 42nd St. (lump sum)	4,200.00	5,000.00	2,000.00
b	Underpinning building, N. Y. Public Library (lump sum)	20,000.00	50,000.00	27,000.00
c	Underpinning building, Nos. 107 to 117 W. 41st St. (lump sum)	3,625.00	14,000.00	4,800.00
d	Underpinning building, Comedy Theatre (lump sum)	4,400.00	5,000.00	4,000.00
e	Underpinning building, Hotel Calvert (lump sum)	5,000.00	5,000.00	4,400.00
f	Underpinning building, Hotel Continental (lump sum)	4,000.00	4,000.00	7,000.00
g	Underpinning building, Broadway Theatre (lump sum)	10,500.00	12,500.00	8,000.00
h	Underpinning building, Commercial Trust Co. (lump sum)	10,000.00	10,000.00	7,200.00
i	Underpinning building N.W. cor. 7th Ave. and 41st St. (lump sum)	4,500.00	5,000.00	2,000.00
j	Underpinning building, 201 W. 41st. St. (lump sum)	1,500.00	1,200.00	1,000.00
k	Underpinning building, 203 W. 41st St. (lump sum)	2,000.00	1,200.00	1,000.00
l	Underpinning building, 205 W. 41st St. (lump sum)	2,500.00	1,200.00	1,000.00
m	Underpinning building, New Amsterdam Theatre (lump sum)	10,000	18,750.00	6,000.00
n	Underpinning building, 200 to 204 W. 41st St. (lump sum)	5,000.00	10,000.00	4,000.00
o	Underpinning building, 206 W. 41st St. (lump sum)	2,500.00	1,500.00	1,000.00
p	Underpinning building, theatre between 206 and 220 W. 41st St. (lump sum)	8,000.00	10,000.00	4,400.00
q	Underpinning building, 220 to 224 W. 41st St. (lump sum)	2,000.00	1,850.00	3,100.00
4AD	Protecting Sims' Statue (lump sum)	3,000.00	3,000.00	3,500.00
4AE	Moving and restoring Men's Comfort Station (lump sum)	30,000.00	21,000.00	25,000.00
4AF	Removing and reconstructing approaches to N. Y. Public Library (lump sum)	60,000.00	50,000.00	65,000.00
4AG	Protecting Catskill Aqueduct Shaft No. 17 (lump sum)	2,000.00	13,000.00	1,000.00
4AH	Protecting Madison Ave. tunnel sewer (lump sum)	2,000.00	5,000.00	2,500.00
5A	71,400 cu.yd. tunnel excavation	13.00	11.80	16.00
6	38,000 cu.yd. concrete masonry	19.00	17.50	15.52
6S	140,000 sq.ft. rubbing to smooth finish the surface of concrete	.15	.10	.10
7	4,000 cu.yd. protective concrete	15.55	19.00	15.52
8	100 cu.yd. rubble stone masonry	9.45	12.00	15.52
8A	100 cu.yd. dry rubble masonry	9.00	10.00	10.00
9	100 cu.yd. brick masonry	39.00	35.00	30.00
10	50 cu.yd. hollow terra cotta brick or tile masonry	36.00	25.00	25.00
10A	100 lin.ft. 4½ in.x13 in. terra cotta flue	1.50	2.00	1.00
11	5,000 bbl. grout of Portland cement	6.00	7.00	6.00
11A	100 sq.yd. resurfacing old concrete masonry	2.00	5.00	12.00
13A	130 M.ft.b.m. tunnel timbering	200.00	100.00	100.00
14	50 cu.yd. broken stone or gravel	5.00	9.00	4.00
15a	4,300 sq.yd. waterproofing, 1-ply	.30	1.00	1.00
b	100 sq.yd. waterproofing, 2-ply	.50	1.80	1.40
c	18,000 sq.yd. waterproofing, 3-ply	.95	2.50	1.75
d	100 sq.yd. waterproofing, 4-ply	1.25	3.00	2.00
e	100 sq.yd. waterproofing, 5-ply	1.50	4.00	2.50
f	1,800 sq.yd. waterproofing, 6-ply	2.25	4.00	2.75
i	100 sq.yd. waterproofing, dry ply	.20	.10	.85
16	620 cu.yd. brick in asphalt mastic	50.00	50.00	45.00
17Ce	60 lin.ft. galvanized wrought-steel pipe, "extra heavy," 8 in	3.00	5.00	10.00
17Sa	1,600 lin.ft. cast-iron pipe, 3 in	.25	1.30	2.00
c	900 lin.ft. cast-iron pipe, 6 in	1.25	1.60	3.00
d	5,600 lin.ft. cast-iron pipe, 8 in	1.50	2.50	4.25
e	70 lin.ft. cast-iron pipe, 10 in	3.00	3.00	5.50
18	76,300 duct ft. tunnel ducts	.18	.30	.29
18I	600 lin.ft. wrought-steel cable feed pipe, "extra heavy," 10-in	10.00	4.00	10.00
19	1,650 tons riveted steel	89.00	93.00	92.00
19B	1 ton resetting old steel, removed	2.00	50.00	80.00
19C	36 tons cutting and disposal of old cast-iron and steel	50.00	65.00	100.00
19NN	10 tons steel ladders and stairs	200.00	400.00	150.00
20	1,500 tons steel beams and shapes	84.00	85.00	92.00
20A	1,700 holes drilling holes in steel	1.00	.65	1.50
21	110 tons steel rods and bars	95.00	100.00	75.00
25	6 tons miscellaneous iron castings	150.00	125.00	150.00
25C	8 tons miscellaneous iron furnishings for sewer manholes	150.00	200.00	150.00
26	2,600 lb. special wire forms	.15	.20	.35
27B	3,700 lin.ft. hand-rail 1½-in. seasoned oak or ash	.25	.70	.50
28	4,000 sq.ft. steel gratings for ventilation	2.50	3.50	3.50
29	370 sq.ft. vault lights	4.00	2.00	3.00
30a	2,800 sq.yd. street surface restored, within curb lines	2.50	3.00	2.50
e	2,500 sq.yd. repavement of roadways with asphalt	7.00	5.00	6.00
f	300 sq.yd. repavement of roadways with granite block	4.00	3.00	5.00
i	10 lin.ft. new bluestone curb	3.50	2.00	1.50
k	100 lin.ft. new 8-in. granite curb	6.00	3.00	4.50
31	300 sq.yd. park surface restored	4.00	2.00	4.00
32a	26,000 lin.ft. wrought-steel electric conduits, ¾-in	.20	.15	.45
b	330 lin.ft. wrought-steel electric conduits, 1½-in	.40	.40	.75
d	1,600 lin.ft. wrought-steel electric conduits, 1-in	.80	.35	.70
f	50 lin.ft. wrought-steel electric conduits, 3½-in	2.00	1.00	2.50
33	1,600 cast iron outlet boxes	4.00	1.50	1.50
33A	20 cast-iron pull boxes	5.00	20.00	8.00
34a	90 lin.ft. cast-iron pipe and fittings, 6 in	5.00	2.50	4.00
b	170 lin.ft. cast-iron pipe and fittings, 3 in	2.50	1.80	3.00
c	60 lin.ft. cast-iron pipe and fittings, 4 in	3.00	3.00	3.00
f	20 lin.ft. cast-iron pipe and fittings, 8 in	7.00	4.00	5.00
38	300 lin.ft. vitrified pipe sewer, 15 in	2.50	4.00	6.00
39	20 lin.ft. vitrified pipe sewer, 18 in	3.00	5.00	7.00
40	20 lin.ft. vitrified pipe sewer, 20 in	4.00	6.00	8.00
41	20 lin.ft. vitrified pipe sewer, 24 in	5.00	8.00	10.00
42	40 tons cast-iron sewer pipe (straight pipe)	60.00	100.00	140.00
43	15 tons cast-iron sewer pipe (special castings)	150.00	200.00	200.00
45	650 lin.ft. concrete sewer, 3 ft. 6 in. x 2 ft. 4 in	20.00	18.00	15.00
47	110 lin.ft. concrete sewer, 4 ft. x 2 ft. 8 in	25.00	20.00	18.00
75a	230 lin.ft. electric railroad (underground), single track	25.00	20.00	18.00
76II	Support of Broadway-4th Ave. R.T.R. (lump sum)	65,000.00	90,000.00	65,000.00
76JJ	Support of Manhattan-Bronx R.T.R. (lump sum)	50,000.00	70,000.00	75,000.00
76KK	Support of 7th Ave.-Lexington Ave. R.T.R. (lump sum)	150,000.00	150,000.00	12,500.00
76LL	Support of Queensboro Subway R.T.R. (lump sum)	8,000.00	1,000.00	5,000.00
79	340 lin.ft. water pipe, 6 in	1.50	1.90	1.00
82	320 lin.ft. water pipe, 12 in	2.50	2.10	2.00
84	120 lin.ft. water pipe, 20 in	5.00	6.50	3.00
87	80 lin.ft. water pipe, 36 in	10.00	3.00	5.00
88	100 lin.ft. water pipe, 48 in	15.00	20.00	8.00

Item		A	B	C
88A	5 service connections for water pipes	50.00	50.00	50.00
91	850 lin.ft. gas pipe, 6 in	1.50	1.80	1.00
92	120 lin.ft. gas pipe, 8 in	2.00	2.30	1.50
93	50 lin.ft. gas pipe, 10 in	2.50	4.00	1.75
94	80 lin.ft. gas pipe, 12 in	3.00	6.00	2.00
95	170 lin.ft. gas pipe, 20 in	5.00	15.50	3.00
99Ah	70 lin.ft. wrought steel, by-passing pipe, 4 in	1.00	7.00	3.00
a	1,460 lin.ft. wrought steel, by-passing pipe, 6 in	1.50	3.50	4.00
f	60 lin.ft. wrought-steel by-passing pipe, 20 in	15.00	40.00	12.00
99Bc	160 lin.ft. wrought-steel, by-passing pipe, on trestle, 20 in.	20.00	15.00	10.00
w	120 lin.ft. cable suspension to support by-passing pipe	2.50	14.00	10.00
99Cb	120 lin.ft. wrought-steel gas pipe, 6 in	2.00	2.00	5.00
99D	5 service connections for gas pipes	15.00	50.00	40.00
100	50 tons new cast-iron hub and spigot straight pipe	100.00	70.00	75.00
100Ab	60 lin. ft. new standard weight wrought-steel gas pipe, 6 in.	2.50	1.50	2.50
101	20 tons new cast-iron and spigot pipe, special castings	100.00	150.00	150.00
101A	350 lb. new malleable-iron fittings	.50	.20	.30
127	19,000 duct ft. electric ducts and conduits	.55	.40	.50
127Ab	620 lin.ft. wrought-steel pipe electric ducts, 3 in	1.25	1.00	1.00
c	800 lin.ft. wrought-steel pipe electric ducts, 3½ in	2.00	1.20	1.25
d	25 lin.ft. wrought-steel pipe electric ducts, 4 in	3.00	1.50	1.50
i	100 lin.ft. wrought-steel pipe electric ducts, 3½ in. Edison.	1.00	1.80	1.25
o	100 lin.ft. wrought-steel pipe electric ducts, 4 in. Edison	2.00	2.00	1.50
127C	2 service connections for electric ducts	50.00	150.00	60.00
127L	2 service boxes on relocated duct lines	50.00	150.00	100.00
127M	2 junction boxes on relocated duct lines	1,000.00	700.00	200.00
127N	2 additional junction boxes, relocated duct lines	1,000.00	700.00	300.00
134	Engineer's office (lump sum)	2,000.00	4,000.00	8,000.00
	Extended totals	$3,867,138.00	$3,895,725.00	$4,171,403.00

Industrial Works (Continued)

Mich., Detroit—Dec. 15, by A. Kahn, archt., 1000 Marquette Bldg., 1 story, 50 x 170 ft., sales and service building, rein.-con., brick and steel, plain foundation, Canfield Ave., for Simons Sales Co., 436 West Willis Ave. $85,000.

Ill., Chicago—Newhouse & Bernham, archts., 4630 Prairie Ave., receiving bids 1 story, 100 x 180 ft. auto service station, rein.-con., brick and steel, Cottage Grove Ave. and 50th St., for Salvat & Newmaster, 740 East 51st St. $90,000.

Mo., St. Louis—Dec. 13, by C. Remabecker, 4263 Juniata Ave., 1 story, 120 x 160 ft., brick, steel and terra cotta garage, Chippewa and Nebraska Aves. $50,000. Private plans.

CONTRACTS AWARDED

Pa., Pittsburgh—Bronx Equipment Co., Concord Ave., Pittsburgh, and 143rd St., New York, 2 story, 50 x 60 x 81 x 120 ft., brick and steel plant, 32nd St. and Sassafras Alley, here, to W. T. Grange Constr. Co., 800 Keenan Bldg., $185,000.

O., Cleveland—H. Barth & Son, 8801 Clark Ave., 1 story, 84 x 110 ft., brick and steel garage addition, plain foundation, to C. C. Hahn, 3790 West 139th St., $40,000.

O., Cleveland—F. S. Pievits, 6613 Denison Ave., 2 story, 50 x 80 ft., brick and steel garage and commercial building, plain foundation, 6601 Denison Ave., to F. S. Wallace Co., 441 Engineers Bldg., $40,000.

O., Cleveland—Schwenger-Klein Co., 515 Woodland Ave., 1 story, 90 x 120 ft., brick, steel and concrete factory, plain foundation, 5501 Denison Ave., to Austin Co., 16112 Euclid Ave., East Cleveland, $60,000.

O., Orrville—Cyclone Drilling Co. 1 story, 170 x 300 ft. machine and forge shop, brick, steel and concrete, plain foundation, to Boldt Constr. Co., 5902 Euclid Ave., Cleveland, $150,000.

Ill., Oak Park—Drechsler Storage & Warehouse Co., 1137 Lake St., 5 story, 48 x 58 ft. storage and warehouse, rein.-con. and brick, to H. E. Moreland & Co., 3701 Belle Plaine Ave., Chicago, $150,000. Noted Sept. 22.

Wis., Milwaukee—Dort Motor Co., 242 4th St., 1 story, 118 x 120 ft., brick and concrete garage, plain foundation, Mason St., to J. L. Stanage, 3216 Vliet St., $40,000. Noted Oct. 13.

Wis., Milwaukee—A. W. Schmidt, 997 Greenfield Ave., 2 story bakery, brick and wood, plain foundation, 23rd Ave., to J. Bielefeld, 470 66th Ave., West Allis, $40,000.

Wis., Wausaukee—Parsons & Vertz, 1 and 2 story, 50 x 144 ft., brick, rein.-con. and steel garage, on Main St., to L. Polomis, Wausaukee, $45,000.

Ia., Sioux City—B. Pill, 707 West 7th St., 2 story, 50 x 150 ft., garage, brick and concrete, 2002 Summit Ave., by day labor, $40,000.

Kan., Parsons—Missouri, Kansas & Texas R.R., Ry. Exch. Bldg., St. Louis, Mo., 1 story machine shop, here, to T. H. Johnson, 107½ South Ohio St., Sedalia, Mo., $50,000.

Mo., St. Louis—A. B. Groves, archt., Stock Exch. Bldg., to J. Godfrey & Co., Wainwright Bldg., 7 story, 25 x 100 ft., brick and rein.-con. factory, 109 South 12th St., for J. Forshaw Stove & Heating Co., 111 North 12th St. $75,000. Noted Nov. 24.

Mo., St. Louis—Polar Wave Ice & Fuel Co., Grand and Olive Sts., 2 story, rein.-con., brick and steel plant, Gravois and Decolsey Sts., to Fruin & Colnon Constr. Co., Merchants Laclede Bldg. $500,000. Noted Nov. 24.

Cal., Los Angeles—C. C. Brown Candy Co., c/o T. B. Kelm, Jr., archt., 719 Haas Bldg., 2 story, 60 x 165 ft., rein.-con., brick and stone factory, Flower St., near 7th St., to C. Bean, 701 Story Bldg., $40,262. Noted Aug. 25.

Cal., Oakland—Durant Motors Co., 2 story, auto factory with 4 wings, (exterior dimensions about 800 x 800 ft.), rein.-con., end of East 14th St., to P. J. Walker Constr. Co., Monadnock Bldg., San Francisco, $750,000; cost plus percentage basis.

Buildings

PROPOSED WORK

Mass., South Boston (Boston P. O.—Municipal—Bldg. Dept., 802 City Hall Annex, having plans prepared by Newhall & Blevins, archts., 9 Park St., Boston, brick, C St. and Bway. $200,000.

N. Y., Brooklyn—Bank—Roosevelt Savings Bank, Gates Ave., opens bids about Dec. 23, brick, steel and stone addition, plain foundation. $150,000. C. Otto, 15 Park Row, New York, archt. and engr. Noted Oct. 27.

N. Y., Flushing—Theatre—Arcola Realty Co., c/o H. G. Wiseman, archt. and engr., 25 West 43rd St., New York, soon takes bids altering brick and stone, Main St., here. $150,000.

N. Y., New York—Apartment—A. Cutler, c/o Gronenberg & Leuchtag, archts. and engrs., 303 5th Ave., soon takes bids 5 story, brick, steel and stone, plain foundation, Wadsworth Terrace. $150,000. Noted Nov. 10.

N. Y., New York—Bank and Office—New York Exch., 107-111 Hanover Sq., soon lets contract 23 story, 90 x 115 ft., brick, steel and stone, Hanover Sq. $2,250,000. D. Barber, 101 Park Ave., archt. and engr. Noted July 28.

N. Y., New York—Loft—A. E. Lefcourt & Co., 140 Madison Ave., plans 12 story, brick, steel and stone, plain foundation, 244-250 West 38th St. $500,000. Architect not selected.

Pa., Connellsville—Church—First Methodist Congregation having plans prepared by W. G. Eckles, archt., New Castle, and takes bids about Jan. 1, stone church. $175,000.

Pa., Phila.—Bath—Neubauer & Supowitz, archts., 929 Chestnut St., opens bids about Dec. 22, 3 story, 72 x 100 ft. rein.-con., brick, steel, terra cotta, tile and ornamental iron, plain foundation, 16th and Locust Sts. $200,000. Owner's name withheld.

Pa., Phila.—Memorial—Takes bids early in 1922 for 2½ story, stone and marble, 18th, 19th, Vine and Wood Sts. $1,500,000. P. B. Sinkler, City Hall, archt.

Pa., Phila.—Theatre—S. R. Blocksom, 667 North Broad St., having plans prepared by L. B. Rothchild, archt., 1225 Sansom St., and soon takes bids 1 story, 100 x 100 ft. rein.-con., brick and steel, plain foundation, Juniper and Locust Sts. $175,000.

Pa., Phila.—Theatre—A. Felts, 140 South 52nd St., opens bids early in 1922, 1 story 100 x 132 ft. theatre and 40 x 60 ft. arcade, rein.-con., brick and steel, plain foundation, Broad and Girard Aves. $250,000. Architect not selected.

D. C., Wash.—Hotel—F. H. Smith Co., 815 15th St., soon takes bids for hotel and roof garden. $3,000,000. J. H. De Sibour, Hibbs Bldg., archt. W. Wetmore, 16 West 47th St., New York, associated archt. Ritz Carlton Hotel Co., 40th St. and Madison Ave., New York, lessee.

W. Va., Logan—Schools—Bd. Educ. c/o S. Skoggs, had plans prepared by R. M. Bates, Jr., archt., 1st Natl. Bank Bldg., Huntington, 5 grade schools, brick. $150,000.

Ky., Louisville—Hospital—Kentucky Baptists, 824 Cecil Ave., having plans prepared and soon takes bids 3 or 5 story, 100 x 150 ft., rein.-con., brick and stone, Barrett Ave. M. B. Hunt, chn. $500,000. Joseph & Joseph, Francis Bldg., archts.

O., Columbus—Bank—See "Contracts Awarded."

O., Dayton—Dormitory and School—St. Joseph's Orphan Society plans 2 story, brick addition to present dormitory and 2 story, brick and concrete school, St. Paul Ave. $150,000. J. S. Heind, pres. Architect not selected.

O., Lakewood (Cleveland P. O.)—Clubhouse, etc.—Lakewood Country Club Co., c/o N. J. Fleming of Federal Reserve Bank, Williamson Bldg., Cleveland, plans 2 story, brick and steel clubhouse and golf course, Bradley Rd. $250,000. Architect not selected.

O., Martins Ferry—High School—Bd. Educ. having plans prepared by C. W. Bates, archt., 77 12th St., Wheeling, W. Va., 2 story high school. $450,000.

O., Shaker Heights—School—Bd. Educ. having plans prepared by C. W. Bates, archt., 77 12th St., Wheeling, W. Va., 2 story, 125 x 260 ft., brick, steel and concrete, plain foundation, Lohman Blvd. $250,000.

Ind., Ft. Wayne—Theatre and Hotel—Consolidated Realty & Theatres Corp., 401 Physicians Defense Bldg., having plans prepared by J. E. Pridmore & F. E. Fowler, archts., c/o owners, 6 story, 150 x 190 ft., brick, stone and concrete, Wayne St. $1,250,000.

Ind., Indianapolis—Apartment Hotel—E. G. Spink Co., Hume-Mansur Bldg., having plans prepared by W. K. Eldridge, archt., c/o owner, 6 story, 52 x 178 ft., stone, brick and rein.-con., North Pennsylvania St. $450,000.

Ind., Indianapolis—Church—Brightwood Methodist Episcopal Church having revised plans prepared by McGuire & Shook, archts., 320 Ind. Pythian Bldg., 1 story, 185 x 185 ft., brick and stone, 21st and Station Sts. $150,000. Noted June 30.

Ind., Indianapolis—Office—Mercantile Bldg. Co. having plans prepared by Vonnegut & Bohn, archt., 610 Ind. Trust Bldg., 77 x 90 ft., terra cotta, Illinois and Market Sts. $150,000.

Ind., Indianapolis—Theatre—W. T. Petty, Spink-Arms Hotel, having plans prepared by Vonnegut, Bohn & Mueller, Bldg., 2 story, 160 x 180 ft., brick and stone, Fall Creek Blvd. $350,000.

Ind., Indianapolis—Theatre—Stegemeier Bros., Occidental Bldg., having plans prepared by oVnnegut, Bohn & Mueller, archts., 610 Ind. Trust Bldg., 2 story, 44 x 120 ft. terra cotta, concrete and brick, North Illinois St. $175,000.

Ind., Lafayette—Recitation Hall—Purdue University having plans prepared by R. P. Daggett, archt., 959 Lemcke Annex, Indianapolis, 2 story, 95 x 100 ft., brick. $150,000.

Ind., Laporte—High School—Bd. School Comrs. plan 2 story, brick. $500,000. Architect not selected.

Ind., Muncie—Science Hall—State Normal School had plans prepared 2 story, 100 x 135 ft., brick. $150,000. C. Kibele, 335 Johnson Bldg., archt. Noted June 30.

Ind., New Haven—School—D. O. McComb, trustee, plans 2 story, brick. $175,000. Architect not selected.

Mich., Ann Arbor—Laboratory, etc.—University of Michigan, having preleminary plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, Detroit, 2 and 3 story, rein.-con., brick and steel laboratory and engineering shops, plain foundation, University Campus. $250,000. S. W. Smith, secy.

Ill., Chicago—Theatre—Whitney & Williams, archts., 110 South Michigan Ave., preparing plans and soon take bids 4 story, 120 x 250 ft., rein.-con. concrete, brick and steel, Howard St. and Marshfield Ave., for M. F. Schiavone & General Realty Co., c/o architects. $3,000,000.

Ill., Chicago—Theatre, Store and Office—Newhouse & Bernham, archts., 4630 Prairie Ave., preparing plans and soon take bids, 3 story, rein.-con., brick and steel, 1620 Howard St., for C. W. Ferguson, c/o architect. $200,000.

Wis., Manitowoc—High School—Bd. Educ. c/o F. Miller, pres., 601 North 6th St., hav-

Buildings (Continued)

ing plans prepared by Perkins, Fellows & Hamilton, Archts., 814 Towers St., Chicago, 2 story, 100 x 150 ft., brick, stone and rein.-con. $150,000.

Wis., Wausau—Mercantile—Ritter & Deutsch Co., 113 3rd St., plans 4 story, 62 x 120 ft., brick and concrete. $150,000.

Minn., Duluth—Hospital—F. A. Cokefair, chm., building com. St. Lukes Hospital Assn., 1st St. and 9th Ave., E., opens bids about April 1, 6 story, 140 x 400 ft. hospital and 75 x 140 ft., nurses home, rein.-con., brick, steel and stone, concrete foundation, 1st St. and 9th Ave. E. $750,000. Schmidt, Garden & Martin, 104 South Michigan St., Chicago, archts. German & Jenssen, 411 Exch. Bldg., Duluth, associated archts. Noted Oct. 27.

Neb., Lincoln—School, etc.—Bd. Educ. will probably take bids about Jan. 11, 3 story, 169 x 261 ft. school and 1 story, 101 x 170 ft. shop, rein.-con. $750,000. Fiske & Meginnis, Bankers Life Bldg., archts. Noted Aug. 18.

Mo., Cape Girardeau—Church and Sunday School—Christian Church plans brick, stone and steel. $150,000. C. H. Swift, pastor. Architect not selected.

Utah, Ogden — Gymnasium — Mormon Church, South Temple St., Salt Lake City, having plans prepared by Wood & Jensen, archts., Eccles Bldg., for gymnasium at Weber College, 2445 Jefferson Ave., here. $300,000.

Utah, Salt Lake City—Club—Building Com. Elks Club, 85 State St., opens bids about Jan. 1, 5 story, rein.-con., brick, steel and terra cotta, South Temple St. $300,000. Scott & Welch, Dooley Bldg., archts. Noted Nov. 17.

Cal., Long Beach—Hotel—G. W. and C. E. McIntyre, of Long Beach Auto Tours System, 125 East Ocean St., having plans prepared by H. Lochridge, archt., 700 Markwell Bldg., 12 story, 65 x 85 ft., brick, marble and tile, Ocean Blvd., near American Ave. $500,000.

Cal., Long Beach—Office and Theatre—Long Beach Bathhouse & Amusement Co. having plans prepared by J. C. and W. H. Austin, archts., 1st Natl. Bank Bldg., 6 story, rein.-con. with brick or terra cotta facing, Ocean Blvd. $300,000.

Cal., Los Angeles—Church—Hollywood Christian Church, Hollywood, having plans prepared by R. H. Orr, archt., 1301 Van Nuys Bldg., 2 story, 54 x 125 ft. bible school and 1 story, 60 x 88 ft. auditorium, both brick and terra cotta, Morgan Pl., near Hollywood Blvd., here. $150,000.

Cal., Los Angeles—Library—Bd. Library Comrs. receiving competitive sketches for library, Normal Hill Center. $1,500,000 voted for project.

Cal., Los Angeles—Office—J. H. Adams, c/o R. D. King, archt., 519 Van Nuys Bldg., having plans prepared for 10 story, 100 x 146 ft., rein.-con., terra cotta and brick, Olive St. near 8th St.

Cal., San Francisco—School—City and San Francisco Co., having preliminary plans prepared by J. Reid, Jr., city archt., City Hall, 3 story, with 2 story wing, rein.-con. and terra cotta tile, 23rd and Valencia Sts. $300,000.

BIDS DESIRED

N. Y., Willard—Hospital—Dec. 21, by State Hospital Comn., Albany, construction, heating, sanitary and electric work—accommodations for tubercular patients at Willard State Hospital, here. L. F. Pilcher, Albany, state archt.; adv. this issue.

N. J., Princeton—Dormitories—Dec. 20, by Zantzinger, Borie & Medary, archts., Otis Bldg., Phila., 3½ story, 41 x 130 ft., with 3 wings, cut stone and hollow tile, plain foundation, here, for Princeton University. $250,000.

Pa., Braddock — Theatre — Crystal Amusement Co., c/o D. Burke, Braddock Ave., 1 story, 80 x 125 ft. Braddock Ave. $250,000. Work will be done by separate contracts. Foundation contract to Hodder Constr. Co., Braddock; steel to Memphis Steel Constr. Co., Magee Bldg., Pittsburgh. Noted Nov. 24.

Pa., Phila. — Gymnasium — Dec. 20, by Seeburgher & Rabenold, archts., 1524 Chestnut St., 1 story, 62 x 150 ft. brick and steel, plain foundation, City Line Ave., for Episcopal A. C., c/o R. Anderson, Locust and Juniper Sts. $150,000.

W. Va., Charleston — Theatre — T. L. Kearse, Strand Bldg., receiving bids 3 story, 94 x 225 ft., brick and stone. Steel work to Massillon Bridge Co., Massillon, O. Total $250,000. Mills & Millspaugh Co., 67 East Long St., Columbus, O., archts. Noted Nov. 3.

N. C., Elizabeth City — Institutional—Dec. 17, by W. O. Saunders, chn. Building Com. of State Normal School for Negroes, administration building, principal's residence, practice school, sewerage and waterworks systems, on campus. $200,000. P. W. Moore, principal. J. A. Salter, Commercial Bank Bldg., Raleigh, archt. Noted Aug. 4.

La., New Orleans—Dec. 23, by Orleans Parish School Bd., City Hall, building Gayarre School, Lafayette Ave. and Painter St. $200,000. N. Bauer, secy. School Bd.

Tenn., Johnson City—Hotel—Chamber of Commerce, 10 story hotel. Work will be done by separate contracts. W. L. Stoddart, 9 East 40th St., New York, archts. and engrs. Noted Apr. 7.

O., Cleveland—Bank—Graham, Anderson, Probst & White, archts., 68 East Jackson Blvd., Chicago, taking bids 3 story, 120 x 137 x 137 ft., fireproof construction, Bway. and East 55th St., here, for Union Trust Co. $300,000.

O., Columbus—School—Dec. 29, by E. McCune, clk. Bd. Educ., Town and High Sts., 2 story, 110 x 190 ft., brick and concrete, North High St. $175,000. H. D. Smith, Town and High Sts., archt.

O., Toledo — School — Dec. 23, by Bd. Educ., Administration Bldg., 2 story, rein.-con., brick and steel, plain foundation, Ontario and Chicago Sts.

Ind., Clinton — Hospital — Dec. 15, by Comrs. Vermillion Co., (Newport), 3 story, 135 x 180 ft., brick and rein.-con., here. $175,000. J. G. Vrydaugh, 612 Ohio St., Terre Haute, archt.

Mich., Detroit — Library — Dec. 19, by Library Comn., c/o J. B. Kennedy, Woodward Ave., 1 story, rein.-con., brick and steel, plain foundation, Grand River and Stoepel Aves. $150,000. N. R. Burrowes, 610 McKerchey Bldg., archt.

Mich., Flint—School—Dec. 28, by Bd. Educ., c/o A. J. Wildanger, secy., 3 story, 160 x 440 ft. rein.-con., brick, steel and stone, plain foundation, Crapo St. Cost to exceed $1,000,000. Malcomson, Higginbotham & Palmer, 405 Moffat Bldg., Detroit, archts.

Ill., Chicago—Office—J. Hunt, archt., 30 North Michigan Ave., receiving bids 5 story, 90 x 125 ft. addition, at 30 North Michigan Ave., $500,000. Owner c/o architect.

Ill., Chicago—Office and Apartment—B. I. Morris, 140 South Dearborn St., receiving bids 3 story, 125 x 155 ft., rein.-con., brick and steel, North Kedzie and Eastwood Aves. $300,000. A. L. Himelblau, 179 West Washington St., archt.

Wis., Madison—Hospital—Jan. 17, by University of Wisconsin, Bd. Regents, 6 story, 150 x 250 ft., brick, rein.-con. and stone. $1,200,000. A. Peabody, Capitol Bldg., archt. Noted Nov. 17.

Wis., Superior—Auditorium—Dec. 15, by A. F. Chadwick, chn. of city building com., 2 story, 75 x 140 ft., rein.-con., steel and brick, 14th St. and Ogden Ave. $150,000. J. O. Bock, Superior Newton Bldg., 1114 Tower Ave., archt. and engr.

Minn., St. Paul—School—Dec. 12 (change of date), by H. W. Austin, city purch. agt., 4 story, 73 x 125 ft., rein.-con., brick, stone and tile, 14th and Jackson Sts. $185,000. C. A. Hausler, City Hall, archt. Noted Dec. 1.

Mo., St. Louis—Store—Dec. 20, by L. E. Dorr, 3922 Washington Ave., 2 story, brick and terra cotta, De Baliviere and Waterman Aves. $150,000. P. J. Bradshaw, International Life Bldg., archt. Noted Nov. 24.

Tex., Dallas—Office—Dec. 15, by Barghbaugh & Whitson, archts., Southwest Life Bldg., 18 story, rein.-con., brick and stone, Pacific and Masten Sts., for Schneider Estate. $1,000,000.

Okla., Okeene — Church — Dec. 15, by Roman Catholic Church, c/o J. Francis, pastor, and Monett & Reid, archts., Empire Bldg., Oklahoma City, 2 story, 58 x 135 ft., brick and stone. $150,000. Noted Sept. 29

Okla., Tulsa—Church—Dec. 22, by G. Winkler, archt., Palace Bldg., 3 story, 100 x 140 ft., brick and stone, 5th and Boston Sts., for Trinity Episcopal Church. $300,000. R. P. Crumb, pastor. Noted June 9.

Cal., Petaluma—High School—Dec. 27, by Bd. Educ., 2 story, Bway. and Fair St. $250,000. P. J. Blim, secy. B. Jones, 110 Washington St., archt.

BIDS RECEIVED

Mass., Roxbury (Boston P. O.)—School—Schoolhouse Comn., City Hall Annex, 2 story, 139 x 145 ft., brick, on School St., from T. O'Connor & Co., Cambridge, $283,000; F. Coburn, 294 Wash. St., Boston, $289,000; C. & R. Constr. Co., 3 Tremont Row, Boston, $314,000. Noted Mar. 17

Ind., Lafayette — Economics — Purdue University 2 story, 125 x 140 ft., brick, from H. B. Krauel, Danville, Ill., $161,500; W. D. Jungclaus, 825 Massachusetts Ave., Indianapolis, $176,500; A. E. Kemmer, 644 North 7th St., $177,000.

CONTRACTS AWARDED

Mass., Boston—Hospital—City Hospital, Harrison Ave., altering present building and constructing 2 story, 43 x 150 ft. and 43 x 107 ft. top addition, also two 6 story, 28 x 43 ft. and 40 x 43 ft. annexes, to Evatt Constr. Co., 161 Devonshire St., $486,000. Noted Dec. 1.

Mass., Boston—Store and Office—W. J. Stober, 1230 Commonwealth Ave., 6 story, 25 x 150 ft., rein.-con. and brick, 256 Boylston St., to N. Hurwitz, Old South Bldg., $150,000.

N. Y., New York—Apartment—Blossom Realty Co., 1415 Franklin St., 5 story, brick, steel and stone, plain foundation, 178th St. and Grand Concourse, by day labor. $250,000. Margon & Glaser, 2806 3rd Ave., archts. and engrs.

N. Y., New York—Apartment—Gorman Bros., c/o Sommerfeld & Steckler, archts. and engrs., 31 Union Sq., 5 story, brick, steel and stone, plain foundation, 178th St. and Anthony Ave., by day labor. $150,000.

N. Y., New York—Theatre and Store—S. and L. Bldg. Co., c/o Margon & Glaser, archts. and engrs., 2806 3rd Ave., brick, steel and stone, plain foundation, 180th St. and Boston Rd., by day labor. $200,000.

N. J., Jersey City—Hotel—Knickerbocker Co., masonry and carpentry contract for 1 story (ultimately 7 story), 2856 Hudson Blvd., to J. Mitchell, Inc., 76 Montgomery St., $44,700. Noted Nov. 3.

Ill., Altona—Home—St. Joseph's Hospital, 6 story, 44 x 87 ft., rein.-con., brick and stone, to M. J. Hoffman Constr. Co., Furniture Bldg., Evansville, Ind., $150,000.

O., Columbus—Bank—Commercial Natl. Bank, Long and High Sts., 2 story, 62½ x 121 ft., East Long St.; steel, to Case, Crane & Eng Co., Curtis Ave.; steel construction, to Middle States Constr. Co., 524 East Hudson St. Soon takes bids for brick, stone and vault work. Total $300,000. Noted Nov. 3.

Ill., Aurora — Temple — Aurora Masonic Temple Assn., c/o C. Edgerton, secy., 188 South Bway., 5 story, 92 x 150 ft., brick, stone and steel, to E. P. Strandberg, 111 West Washington St., Chicago, $250,000. Noted Oct. 27.

Ill., Peoria—School—Bd. Educ., building Harrison School, 2 story, rein.-con., brick and stone, to R. Iben, Peoria, $165,000. Noted Nov. 17.

Wis., Milwaukee — Church — Ebenezer Evangelical Lutheran Congregation, 2448 Center St., 80 x 92 ft., brick and stone, plain foundation, Center St., to H. C. Breest, 2408 Keefe Ave., $150,000. Noted May 10.

Cal., San Francisco—Office—Roos, Dunn & Williams, 4 story, 33 x 77 ft., rein.-con., Montgomery St., to MacDonald & Kahn, 130 Montgomery St., $200,000.

Federal Government Work

PROPOSED WORK

N. Y., Plattsburg—Monument—U. S. Engineer, 1st Dist., Room 710, Army Bldg., New York, rejected bids opened Nov. 15 for MacDonough Memorial, here. Noted Oct. 20.

Cal., Palo Alto—Hospital—Treas. Dept., Wash., D. C., plans U. S. Pub. Health Serv. Hospital, here.

BIDS DESIRED

N. J., Metuchen—Water Supply System—Dec. 28, by Constructing Quartermaster, Room 510, 39 Whitehall St., New York, removing existing 4, 6 and 8 in. wood stone pipe and laying 1,100 ft. 4 in., 5,000 ft. 6 in. and 5,200 ft. 8 in. c.i. Class B pipe, and furnishing 1,000 ft. 6 in. and 340 ft. 8 in. c.i. pipe and specials, for Raritan Arsenal, here.

Va., Yorktown—Water Supply System—Spec. 4514—Dec. 14 (change of date) by Bureau Yards & Docks, Navy Dept., Wash., D. C., water supply system, at Naval Fuel Depot, here. Noted Nov. 17

S. C., Charleston—Fire Protection System—Spec. 4558—Dec. 21, Bureau Yards & Docks, Navy Dept., Wash., D. C., foam fire protection system, at Navy Yard, here. Noted Dec. 1.

Ga., Augusta—Materials—Dec. 19, Treas. Dept., Wash., D. C., materials for construction of U. S. Pub. Health Serv. Hospital, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Ill., Oak Park—Extension to Workroom, etc.—Dec. 20, Treas. Dept., Wash., D. C., extension to workroom, mailing vestibule, etc., U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Wis., Vicksburg—Terminal—Dec. 20, by War Dept., Inland and Coastwise Waterways Service, at office of Federal Manager,

Federal Government Work (Continued)

321 Custom House, New Orleans, La., river and rail terminal, here.

BIDS RECEIVED

O., Dayton — Home — Bd. **Mgrs. Natl.** Home for Disabled Volunteer Soldiers, received low bid for 2 story, with five wings, brick, steel and concrete, here, from Davis-Hunt Constr. Co., 907 Schwind Bldg., $704,908. Noted Nov. 24.

Wash., Walla Walla — Mechanical Equipment — Treas. Dept., Wash., D. C., mechanical equipment in U. S. Pub. Health Serv. Hospital, here, from G. E. Eng. Co., 449 West 42nd St., New York, $178,500; Austin Eng. Co., 121 West 42nd St., New York, $223,375. Noted Nov. 17.

CONTRACTS AWARDED

Mass., Boston—Dredging—U. S. Engineer, dredging in Weymouth Fore River, here, to J. S. Packard Dredging Co., 1004 Turks Head Bldg., Providence, R. I., $44,226. Noted Oct. 27.

Mass., Rutland—Hospital—Treas. Dept., Wash., D. C., U. S. Pub. Health Serv. Hospital, here, to M. Serretto, 3 Tremont Row, Boston, $282,673; mechanical equipment for above, to G. E. Eng. Co., 449 West 42nd St., New York, $146,300. Noted Dec. 1.

D. C., Bellevue—Chimney—Spec. 4534—Bureau Yards & Docks, Navy Dept., Wash., for chimney at Naval Experimental and Research Laboratory, here, to Rust Eng. Co., 1406 G St., N. W., $5,743 (70 days). Noted Nov. 24.

Ga., Savannah—Dredging—U. S. Engineer, P. O. Bldg., dredging in Brunswick Harbor, here, to J. Emile Dredging Co., Duval Bldg., Jacksonville, Fla., $1.37 per cu.yd. Noted Nov. 3.

Tenn., Nashville—Derrick Boat—U. S. Engineer, Custom House, steel derrick boat to Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh, Pa., $11,785. Noted Nov. 24.

Mo., St. Louis—Vessel—Mississippi River Comn., 1311 International Life Bldg., motor vessel to J. Eichleay, Jr. Co., 45 South 20th St., Pittsburgh, Pa., $36,990. Noted Oct. 20.

Wash., Keyport—Tower—Spec. 4538—Bureau of Yards & Docks, Navy Dept., Wash., D. C., 210 ft. radio tower, at Naval Radio Sta., here, to C. F. Martin, 4120 Dayton Ave., Seattle, $6,713 (120 days). Noted Dec. 1.

Wash., Seattle—Emergency Dams—U. S. Engineer, for emergency dams at Lake Washington Ship Canal Locks, here, to Dravo Contg. Co., Diamond Bank Bldg., Pittsburgh, Pa., $96,731. Noted Sept. 29.

Wash., Walla Walla—Hospital—Treas. Dept., Wash., D. C., U. S. Pub. Health Serv. Hospital, here, to J. H. Weise, 5103 Cass St., Omaha, Neb., $123,880. Noted Dec. 1.

Ore., Portland—Stone—U. S. Engineer, 1st Dist., stone for north jetty construction, here, to A. D. Kern, Lumber Co., Exch. Bldg., $101,150.

Cal., Eureka—Tower—Spec. 4533—Bureau Yards & Docks, Navy Dept., Wash., D. C., 300 ft. radio tower, at Naval Radio Sta., here, to Eureka Boiler Wks., foot of T St. Noted Dec. 1.

Miscellaneous

PROPOSED WORK

Subway, etc. — Rochester, N. Y. — Bd. Estimate having plans prepared for subway in canal channel from Griffith St. to point 800 ft. west of Oak St. for purposes of an Industrial and Rapid Transit R.R., incl. necessary superstructure, pavements and walks, 10,000 cu.yd. earth and 50,000 cu.yd. rock excav., 25,000 cu.yd. rein.-con., 400 ton steel, about 1 mi. single trolley track, 15,000 yd. asphalt and 5,000 yd. medina stone pavement. $1,800,000. L. Brown, city engr.

Coal Tipper and Bin—Morgantown, W. Va.—Wilson Bros. Coal Co., Fairchance, Pa., soon takes bids for coal tipper and bin, near here. $25,000. Monongahela Valley Eng. Co., Morgantown, structural engrs.

Athletic Bowl—Montgomery, Ala.—Plans athletic bowl with concrete bleachers and grand stands. $50,000. H. A. Washington, city engr.

Grandstand—Peoria, Ill.—Peoria Baseball Fans Assn., c/o J. Ryan, pres., having plans prepared for rein.-con. grandstand. $50,000. Day & Bullard, Peoria Life Bldg., archts.

Golf Course—Lakewood (Cleveland, P. O.), O.—See "Buildings".

Road Machinery—Alma, Wis.—Buffalo Co. appropriated $6,000 for road machinery. J. Reinhardt, Nelson, Comr.

Road Machinery—Ashland, Wis.—Ashland Co. appropriated $10,000 for road machinery. W. E. Dillon, Highbridge, comr.

Road Machinery—Barron, Wis.—Barron Co. voted to purchase gravel crusher, tractor, graders, trucks aand other tools. E. Gleason, comr.

Road Machinery—Chippewa Falls, Wis.—Chippeawa Co. appropriated $8,000 for road machinery. P. O. Lokrantz, comr.

Road Machinery—Durand, Wis.—Pepin Co., voted $1,500 for road machinery. G. A. Goss, comr.

Road Machinery—Eau Claire, Wis—Eau Claire Co. appropriated $20,000 for road machinery. G. Osborne, comr.

Road Machinery—Elkhorn, Wis.—Walworth Co. appropriated $2,000 for road machinery. H. J. Peters, comr.

Road Machinery—Ellsworth, Wis.—Pierce Co. appropriated $5,000 for road machinery. C. F. Kenall, comr.

Drag Line, Conveyed, etc.—Fond du Lac, Wis.—Fond du Lac Co. voted to purchase drag line, conveyor, grizzley, bins and screen for gravel plant. G. Treleven, comr.

Road Machinery, etc.—Hudson, Wis.—St. Croix Co. appropriated $10,000 for road machinery, incl. heavy grader, wheelers and slips. J. Caffrey, Hammond, comr.

Road Machinery—Kewaunee, Wis.—Kewaunee Co. appropriated $1,000 for road machinery. M. Shaw, Algoma, comr.

Road Machinery, etc.—Merrill, Wis.—Lincoln Co. voted $10,000 for road machinery, incl. patrol graders and other small equipment. H. H. Kuehling, comr.

Road Machinery, etc.—Oshkosh, Wis.—Winnebago Co. appropriated $5,000 for new road machinery, incl. one paver. J. Binning, comr.

Crusher, etc.—Phillips, Wis.—Price Co. appropriated $8,000 for crusher, tractor, graders and wheelers. B. M. Griffin, comr.

Road Machinery, etc.—Richland Center, Wis.—Richland Co. appropriated $15,000 for road machinery, incl. large grader, 6 patrol graders and possibly steam shovel. W. V. Robinson, comr.

Road Machinery, etc.—Shawano, Wis.—Shawano Co. appropriated $20,000 for road machinery, incl. crusher outfit and other equipment. W. F. Meyer, comr.

Dock—Superior, Wis.—Engineering Dept. of Great Northern R.R., 4th and Jackson Sts., St. Paul, Minn., takes bids about Dec. 31, steel iron ore dock to replace wooden structure, pile and rein.-con. foundation, concrete apron, 2,200 ft. long, 62½ ft. wide x 40½ ft. high, on Allouez bay, here. About $2,000,000. Noted June 20.

Road Machinery—Superior, Wis.—Douglas Co. appropriated $15,000 for road machinery. C. Hanson, comr.

Road Machinery—Viroqua, Wis.—Vernon Co. appropriated $3,100 for road machinery. A. Ristow, comr.

Road Machinery — Wausau, Wis. — Marathon Co. appropriated $12,000 for road machinery. J. H. Vogt, Wausau, comr.

Road Machinery — West Bend, Wis. — Washington Co. appropriated $25,000 for road machinery. C. J. Johnson, comr.

Tunnel—Lamar, Mo.—See "Industrial Works."

Dock, etc. — Tacoma, Wash. — Port of Tacoma probably opens bids Dec. 29, dock and 180 x 1040 ft. fireproof transit shed, 10,215 cu.yd. rein.-con., 18,270 lin.ft. wooden piling, 2,056,000 ft. timber, 539 ton steel, 93,620 lin.ft. creosoted wood piling, 74,760 lin.ft. concrete piling, alternative, 74,760 lin.ft. gunite piling, 81,000 sq.ft. wire mesh, $500,000. G. W. Osgood, Tacoma, port engr. Noted Nov. 3.

Dock Equipment—Tacoma, Wash.—Port of Tacoma takes bids probably in February, for four 3-5 ton steel cranes, loft and boom type, one 2 ton electric monorail hoist, 220 v.d.c., about 4,000 ft. of monorail trackage, miscellaneous conveyor equipment and miscellanous stacking machines. G. W. Osgood, 612 Tacoma Bldg., port engr.

Electric Lighting and Power System—Fullarton, Ont. — Fullarton Twp. plans electric lighting and power distribution system $48,000. Address R. H. Pomeroy, Fullarton.

Block Signal System—Hamilton, Ont.—Grand Trunk Ry., London, having plans prepared block signal system from here to Weston, $150,000. C. Forrester, London, supt.

BIDS DESIRED

Baseball Stadium—New York, N. Y.—Dec. 22, by Amer. League Baseball Club of New York, 226 West 42nd St., furnishing and erecting structural steel for proposed stadium, west of River Ave., between East 157th and 161st Sts. Osborn Eng. Co., 2848 Prospect Ave., Cleveland, O., engrs.; adv. this issue.

Dredge Repair—New York, N. Y.—Dec. 12, by Dept. Docks & Ferries, Pier "A" North River, repairs to dredge "Grabit". $50,000.

Pier—New York, N. Y.—Dec. 12, by Commissioner Docks & Ferries, Pier "A" North River, new pier at foot of 44th St., North River. $500,000.

Steam Asphalt Roller—New York, N. Y.—Dec. 13, by H. Bruckner, pres. Bronx Boro, Municipal Bldg., furnishing and delivering one 5 ton steam asphalt roller.

Wood Paving Blocks—New York, N. Y.—Dec. 15, by Bd. Purch., Municipal Bldg., furnishing and delivering wood paving blocks to Dept. Plant & Structures. G. A. Whalen, comr. Plant & Structures, chn.

Wharf Cranes—Rochester, N. Y.—Jan. 4, by C. L. Cadle, supt. Pub. Wks., Albany, two 2 ton, electric, overhead wharf cranes, here, Terminal Contr. 120; adv. this issue.

Power and Distributing Equipment—New Orleans, La.—New Orleans Ry. & Light Co., 209 Baronne St., receiving bids, one 20,000 kw. turbine complete incl. installation, $540,000, relaying and switching apparatus at central station, $100,000, additional switchboards, $25,000, new building for Bourbon substations, $30,000, new rotary for Edison system, $50,000, new rotary for railway system, $50,000, two 6,600 volt underground feeders, $28,000 each, one 6,600 volt tie line from Magazine to Bourbon substations, $12,000, one 6,600 volt tie line from Edison to Consumers substation, $10,000, underground ducts, $50,000, reroute half of 6,600 volt feeders to Canal and Valence substations, $25,000, extend Shrewbury feeder into Canal substation, $8,000, new feeders for distribution system and rearrangement of existing feeders, $44,000. A. Kempster, genl. mgr.

BIDS RECEIVED

Inspection Shed Enclosure—Brooklyn, N. Y.—Transit Comn., 49 Lafayette St., New York, opened bids Dec. 5, inspection shed and its appurtenances in Livonia Ave. Yard, between Elton and Linwood Sts. from New Lots to Stanley Aves., here, from C. J. Adams & Sons, 308 West 20th St., New York, $180,000; N. A. Deiser, 296 Fenimore St., $181,000; P. T. Cox Contg. Co., 154 Nassau St., New York, $186,400. Noted Nov. 24.

Binder Stone, etc.—New York, N. Y.—H. H. Curran, pres. Manhattan Boro, Municipal Bldg., opened bids Nov. 30, furnishing and delivering 1,200 cu.yd. binder stone, from Calvin Tomkins Co., 30 Church St., $1.83 per cu.yd., total, $2,196, New York Trap Rock Corp., 101 Park Ave., $1.90, $2,280; 200,000 wood paving blocks, from Amer. Creosoting Co., 17 Battery Pl., $8,310, W. J. Fitzgerald, 547 West 45th St., $42.40 per M, $8,480. Noted Nov. 24.

Heating and Plumbing System—Rochester, N. Y.—C. L. Cadle, supt. Pub. Wks., Albany, opened bids Nov. 30, heating system terminal, Contr. 230 H, from L. C. Gresens, 49 2nd St., $7,295; W. F. Devendorf & Co., 470 Court St., $7,585, M. W. Utz, 1072 East Main St., $7,950; plumbing system terminal, Contr. 230 P, from Arensmeyer, Warnock & Zahrndt, 114 Monroe Ave., $4,177, Howe & Bassett Co., Inc., 23 Stillson Ave., $4,475, Barr & Creelman Co., 74 Exch. St., $4,500. Noted Nov. 17.

Caterpillar Tractor—Virginia, Minn.—For 5 ton caterpillar tractor with combination sidewalk and street snow plow attachments, from Boyle & Mather, Virginia, $3,750 with $400 extra for plows; Turner Co., Duluth, $3,973; J. Carhart, Virginia, $3,926 with $155 and $110 extra for plows. Noted Nov. 17.

Coal Trestle — Orient, O. — Dept. Pub. Welfare, Columbus, opened bids Nov. 23, coal trestle and railroad siding, institution for feeble minded, here, from Grant-Boulton Co., Central Natl. Bank Bldg., Columbus, $19,270; Gaty Constr. Co., Central Natl. Bank Bldg., Columbus, $20,095. Noted Nov. 17.

CONTRACTS AWARDED

Coal Handling Equipment—Thiells, N. Y.—M. B. Patterson, pres. Bd. Mgrs. of Letchworth Village, 7 Wall St., New York, coal handling equipment for Letchworth Village, here, to R. J. Mansfield, 135 William St., New York, $11,727. Noted Oct. 13.

Dock—Jersey City, N. J.—Repairing and rebuilding portions Howell St. Dock, Hudson River, to Stillman-Delehanty-Ferris Co., 15 Exch. Pl., $33,125. Noted Dec. 1.

Trestle and Bins—Wash., D. C.—Dist. Comrs., 509 Dist. Bldg., for trestle and bins to R. C. Mansfield, 135 William St., New York, $14,980. Noted Nov. 3.

Fire Hydrants—Detroit, Mich.—Dec. 14, by G. J. Finn, comr. Purchases & Supplies, 710 Marquette Bldg., 300 six in. double standard fire hydrants. $15,000.

Culverts—Dayton, O.—For 3 rein.-con. slab type culverts over Miami and Erie Canal, by force account. $30,000. J. E. Houk, city engr.

Stadium and Coliseum—Los Angeles, Cal.—Community Development Assn., 1020 Merchants Bank Bldg., rein.-con. and stone, peristyle, at Exposition Park, to Edwards, Wildey & Dixon Co., 515 Black Bldg., $772,000. Noted May 19.

Wharf—Parry Sound, Ont. — Dominion Government, Ottawa, repairing wharf, here, to Weddell & Saunders, Trenton, $28,866.

OFFICIAL PROPOSALS

Bids: Dec. 14.

Road Construction

Providence, R. I.

Sealed proposals for the construction of the following sections of State Highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 M. on Wednesday, December 14, 1921, at which time they will be opened and read in public.

1. Smithfield-Farnum Pike, 1.4 miles-bituminous macadam.

Principal estimated quantities.

7100 cu.yds. Earth excavation
700 cu.yds. ledge excavation
2800 cu.yds. Stone foundation
850 cu.yds. Gravel foundation
2500 lin.ft. Guard rail
4300 tons Crushed trap rock
38,000 gals. Hauling, heating, applying binder.

2. Gloucester, Scituate-Chepachet southerly on the Cherry Valley and Chopmist Hill roads to Danielson Pike, 5.9 miles bituminous concrete (Topeka).

Principal estimated quantities.

28000 cu.yds. Earth excavation
2000 cu.yds. Ledge excavation
2500 cu.yds Borrow
10750 cu.yds. Stone foundation
2000 cu.yds. Gravel foundation
8000 lin.ft. Guard rail
15000 tons Crushed stone base
62000 sq.yds. Bituminous concrete surface.

Bids must be made upon blank forms to be furnished by the Board.

No bids will be accepted unless accompanied by a certified check for the sum of $200.00 payable to the State of Rhode Island.

The Board reserves the right to reject any and all bids, and to give preference to towns or cities, in accordance with Section V of Chapter 84 of the General Laws.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, State House, Providence, R. I., on and after Friday, December 2, 1921, every week day (except holidays and Saturdays), between the hours of 9 A.M. and 5 P.M., Saturdays 9 A.M. to 12 M.

State Board of Public Roads,
ABRAM L. ATWOOD,
BENJAMIN F. ROBINSON,
FRANK COLE,
J. HENRY WOODARD,
ALTON HEAD.

Bids: Dec. 13.

Pipe Line and River Crossing

Monroe, Michigan.

Sealed proposals will be received by the City Clerk of Monroe up to 7:30 o'clock P.M., Central Standard Time, of Tuesday, the 13th day of December, 1921, for the construction of a cast iron water pipe line and river crossing for the City waterworks.

The pipe line will comprise about 1,120 lineal feet of Class A and 530 lineal feet of Class B 24-inch cast iron pipe, with valves and pipe specials. A concrete valve vault will be constructed at the junction of the new pipe line with the existing 16-inch pipe line in Elm Street.

The plans and specifications under which the work is to be done may be examined at the office of the City Clerk, Monroe, Michigan, or at the office of Hoad and Decker, Consulting Engineers, Ann Arbor, Michigan, and copies of the same may be obtained by making a deposit of five dollars, which will be refunded upon their return in good condition.

A certified check for a sum not less than five per cent of the amount of the proposal will be required with each proposal.

The right to accept any proposal, to reject any or all proposals, and to waive defects in proposals is reserved by the City.

C. B. SOUTHWORTH,
Mayor.
F. M. KRESSBACH,
City Clerk.

HOAD AND DECKER,
Consulting Engineers,
Ann Arbor, Michigan.

These Advertisements

are official notices that bids are wanted from other than local bidders.

Maximum competition is desired, and this is assured through Engineering News-Record's large NATIONAL circulation, reaching almost every contractor, dealer, and manufacturer in the country interested in bidding on public work contracts. It is the DOMINANT MEDIUM for advertising contracts for work, material, and supplies for towns, cities, counties, state and government departments, and private organizations.

Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

Rate: 40 cents a line an insertion.

Bids: Dec. 27.

Pipe, Valves, and Fittings

Walla Walla, Wash.

Notice is hereby given that sealed proposals will be received by the City Commission of the City of Walla Walla, Washington, up to 10:00 A.M. of the Twenty-seventh day of December, 1921, for the material incident to the complete construction of the 2nd part of the 3rd Division of proposed additions and betterments to and extensions of the water system, owned and operated by said City, under and by virtue of Ordinance No. A-435, as amended by Ordinance No. A-519.

The material contemplated is as per the following schedule to-wit:

1. 24" steel pipe, No. 8 U. S. gauge, approximately 11,250 lin.ft.
2. 1-20" Gate Valve, geared.
3. 1-24" Gate Valve, by pass, geared.
4. Miscellaneous cast iron fittings.

Plans, specifications, form of proposal and contract may be obtained from the City Clerk.

By order of the City Commission of the City of Walla Walla.

E. T. CHURCHMAN,
City Clerk.

Bids: Dec. 22.

Furnishing Conveyor Belts

New Orleans, La.

Sealed proposals will be received by the Board of Commissioners of the Port of New Orleans, at their office, Suite 200 New Orleans Court Building, New Orleans, La., until 7:30 P.M., December 22, 1921, and then publicly opened for the furnishing of conveyor belts for use at the Marine Leg Unloader at the site of the Public Grain Elevator.

A deposit of Seven Hundred Dollars ($700.00) in cash or certified check is required with proposal.

Bond of 50% of bid is required with Notarial Contract.

Payment of 95% of the bid will be made upon delivery of material on the site and after acceptance of same by the Chief Engineer of the Board. The balance will be paid 20 days after belts have been installed and finally accepted.

Proposals must be submitted on a special proposal form prepared by the Board.

Specifications and proposal forms are on file in the office of the Supervisor of Purchases, Mr. J. W. Westerfield, No. 1 Canal Street, by whom full sets will be furnished to prospective bidders.

The right is reserved to reject any or all bids and to waive informalities.

R. S. HECHT,
President.
J. F. FINKE, Jr.,
Secretary.

Req. Ed—10304.

Bids: Dec. 29.

Dredging, etc.

Portland, Maine.

Sealed bids for removing structures, dredging and filling and constructing seawall will be received by the Directors of the Port of Portland at their office, 67 Commercial Street, Portland, Maine, until 2 o'clock P.M. on Thursday, December 29th, 1921, at which time and place the bids will be publicly opened and read aloud.

The timber deck of a part of Franklin Wharf and the timber portion of Galt Wharf are to be removed, a seawall built at the inner end of the proposed pier and dock, and the dock together with a portion of the adjacent Grand Trunk dock dredged to depths varying from 30 feet to 35 feet below mean low water.

Before the award of the contract any bidder may be required by the Directors to show that he has the necessary experience, ability, equipment and financial resources to perform the work within the time stipulated and in a manner satisfactory to the Engineers.

Each bid must be accompanied by a properly certified check for the sum of five thousand ($5,000) dollars.

A bond satisfactory to the Directors will be required for the faithful performance of the contract, said bond being in the sum of fifty thousand ($50,000) dollars.

A more complete description of the work to be done is given in the Notice to Bidders, the forms of Bid, Contract and Bond and the Specifications and Contract Drawings.

Copies of the foregoing may be inspected at the office of the Directors of the Port of Portland, at Portland, and at the office of the Engineers, Fay, Spofford & Thorndike, 15 Beacon Street, Boston, Massachusetts.

Receipt of bids will be subject to the conditions stated in said notice to bidders.

The right is reserved to reject any or all bids.

HENRY F. MERRILL,
President.
BERTRAND G. McINTIRE,
FRED W. BUNKER,
JAMES Q. GULNAC,
ALEXANDER T. LAUGHLIN.
Directors of the Port of Portland.

FAY, SPOFFORD & THORNDIKE,
Engineers.
15 Beacon St., Boston, Massachusetts.
November 28th, 1921.

Bids: Dec. 22.

Steel Water Tank

Boston, Mass.

Commonwealth of Massachusetts. Metropolitan District Commission. Water Division. Steel Tank for Arlington Reservoir. Sealed proposals will be received at the office of the Metropolitan District Commission, 18 Tremont Street, Boston, Mass., until 2 o'clock P.M. of Thursday, December 22, 1921, for removing and disposing of an existing water tank 40 feet in diameter and 60 feet in height, erected in 1894, on Arlington Heights, and building on the same site as a steel tank 75 feet in diameter and 61 feet 3 inches in height on a foundation provided by the Commonwealth. Plans showing the location and general character of the work may be seen and pamphlets containing further information for bidders, forms of proposal, contract and specifications, may be obtained, by prospective bidders experienced in building large steel tanks and having the requisite plant, at the office of William E. Foss, Director of the Water Division, 1 Ashburton Place, Boston. The printed forms must be used in making proposals. Each bid must be accompanied by a certified check for two thousand dollars, and a bond in the sum of twenty thousand dollars will be required for the faithful performance of the contract. The Commission reserves the right to reject any or all bids or to accept the proposal deemed best for the Commonwealth.

GEO. LYMAN ROGERS,
Secretary.